



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

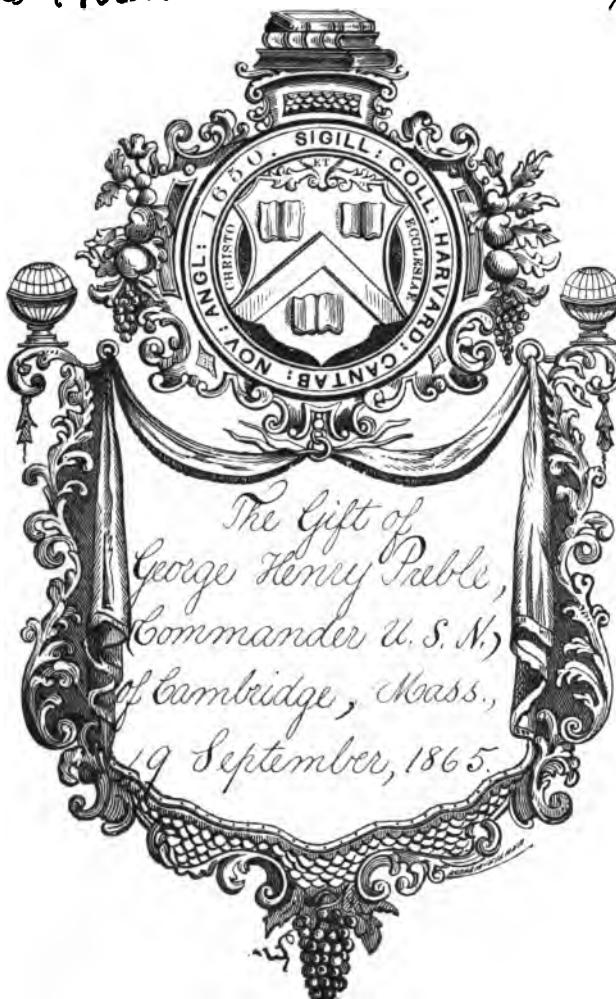
About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>

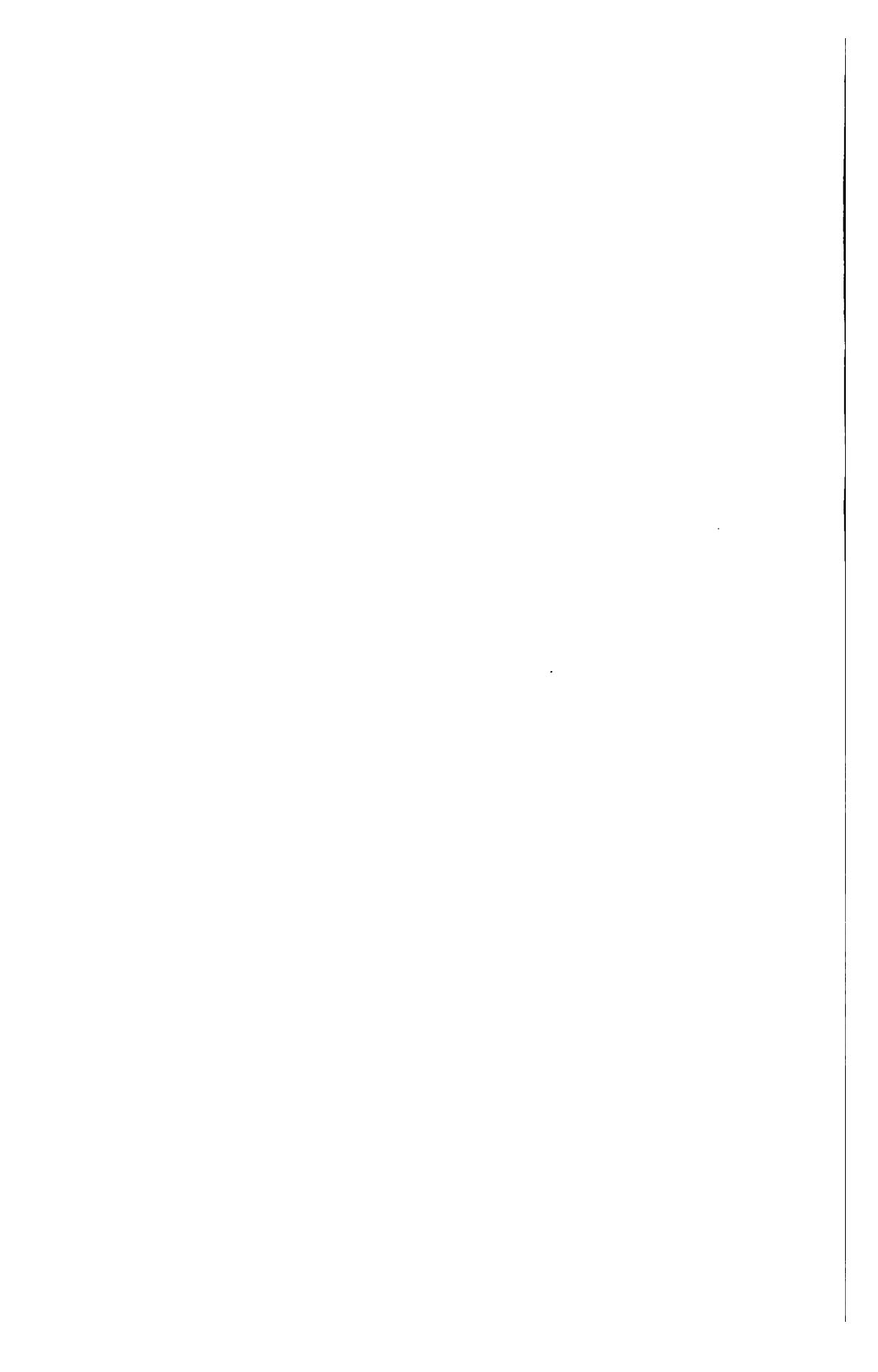
1702
8

Nov. 1702.8

73d. 1874.





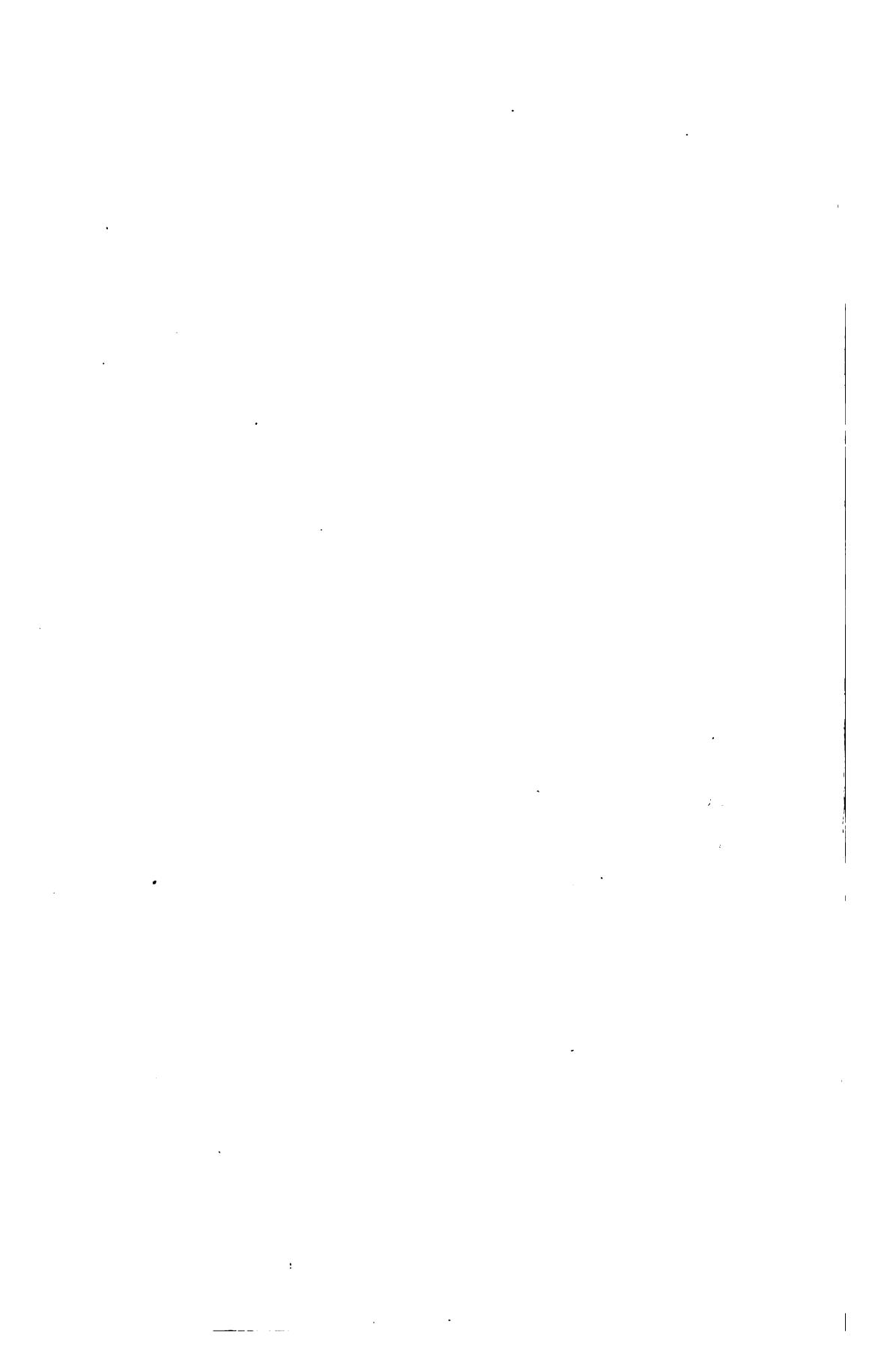


Light-House Board

ORGANIZATION AND DUTIES
OF THE
LIGHT-HOUSE BOARD;
AND
RULES, REGULATIONS, & INSTRUCTIONS,
OF THE
LIGHT-HOUSE ESTABLISHMENT
OF THE
UNITED STATES,
WITH THE
LAWS AND CIRCULARS RELATING THERETO.

BY AUTHORITY OF THE TREASURY DEPARTMENT.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1864.



ORGANIZATION AND DUTIES

OF

OF THE

United States -

LIGHT-HOUSE BOARD;

AND

RULES, REGULATIONS, & INSTRUCTIONS,

OF THE

LIGHT-HOUSE ESTABLISHMENT

OF THE

UNITED STATES,

WITH THE

LAWS AND CIRCULARS RELATING THERETO.

BY AUTHORITY OF THE TREASURY DEPARTMENT.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1864.

Nov-112.2

1865, Sept. 19.

Given
George Henry Steele,
Commissioner, U. S. A.

LIGHT-HOUSE BOARD: ORGANIZATION, DUTIES, &c.

The Light-house Board is composed of "two officers ^{Organization.} of the navy of high rank, one officer of the corps of ^{Members.} engineers of the army, one officer of the corps of topographical engineers of the army, and two civilians of high scientific attainments, (whose services may be at the disposal of the President,) and an officer of the navy and an officer of engineers of the army as secretaries;" the ^{Secretaries.} Secretary of the Treasury being *ex officio* president, and, ^{President.} in his absence, a member, as chairman, elected by the ^{Chairman.} Board, presiding.—(Sections 8 and 9, act approved Aug. 31, 1852.)

The Board, provided with "the necessary accommodations for the secretaries and clerks, for the preservation of the archives, models, drawings, &c., &c., and for holding the meetings of the Board," will meet "four times in each year, for the transaction of general and special business, on the first Monday in March, June, September, and December," and whenever, in the judgment of the Secretary of the Treasury, "the exigencies of the service may require it."—(Sections 10 and 11, same act.) The Board will "adopt such rules and regulations for the government of their meetings as they may judge expedient."—(Section 8, same act.)

The duties of the Board, under the Secretary of the ^{Duties.} Treasury, are:

1. To "discharge all the administrative duties of said office relating to the construction, illumination, inspection, and superintendence of light-houses, light-vessels, beacons, buoys, sea-marks, and their appendages, and embracing the security of foundations of works already existing, procuring illuminating and other apparatus, supplies and materials of all kinds for building and for rebuilding, when necessary, and keeping in good repair the light-houses, light-vessels, beacons, and buoys of the United States," (section 8, same act:) *Provided*, "That hereafter, in all new light-houses; in all light-houses

<sup>Accommodation
and preservation
of archives.</sup>

^{Stated meetings.}

<sup>Rules for govern-
ment of meetings.</sup>

requiring new lighting apparatus, and in all light-houses as yet unsupplied with illuminating apparatus, the lens or Fresnel system shall be adopted, if, in the opinion of the Secretary of the Treasury, the public interests will be subserved thereby." —(Section 7, act approved March 3, 1851.)

To arrange the light-house districts. 2. "To arrange the Atlantic, Gulf, Pacific, and Lake coasts of the United States into light-house districts, not exceeding twelve in number;" to each of which the

An officer of the army or navy assigned to each as inspector. President is authorized to assign an officer of the army or navy "as a light-house inspector, subject to and under the orders of the Light-house Board," (section 12, same

Officers of engineers of the army to superintend the construction, &c., of light-houses. act,) and to detail, "from the engineer corps of the army, from time to time, such officers as may be necessary to superintend the construction and renovating light-houses." —(Section 9, act approved March 3, 1851.)

To prepare plans, estimates, &c. 3. "To cause to be prepared, by the engineer secretary of the Board, or by such officer of engineers of the army as may be detailed for that service, all plans, drawings, specifications, and estimates of cost of all illuminating and other apparatus, and of construction and of repair of towers, buildings, &c., connected with the light-house establishment;" section 14, act approved August 31, 1852, which also declares that "no bid or contract shall be accepted or entered into except upon the decision of the Board at a regular or special meeting, and through their properly authorized officers."

To procure materials. 4. To procure "all materials for the construction and repair of light-houses, light-vessels, beacons, buoys, &c., &c.," "by public contracts, under such regulations as the Board may, from time to time, adopt, subject to the approval of the Secretary of the Treasury," and to order

Works, under whom executed. "all works of construction, renovation, and repair," made "under the immediate superintendence of their engineer secretary, or of such engineer of the army as may be detailed for that purpose." —(Section 15, same act.)

Estimates of expenses furnished to be laid before Congress. 5. "To furnish, upon the requisition of the Secretary of the Treasury, all the estimates of expenses which the several branches of the light-house service may require, and such other information as may be required to be laid before Congress at the commencement of each session." —(Section 16, same act.)

Administrative details arranged. 6. To arrange all administrative details confided to it by law or by the Department; provided that its rules are in harmony with existing laws and the regulations, and with the general rules for the transaction of business of the Department; and—

Rules, regulations and instructions, prepared and distributed. 7. "To cause to be prepared and distributed, by and with the consent and approbation of the Secretary of the Treasury, among the light-keepers, inspectors, and others

employed in the light-house establishment, such rules, regulations, and instructions as shall be necessary for securing an efficient, uniform, and economical system of administering the light-house establishment of the United States, and to secure responsibility from them," &c.—(Section 13, same act.)

8. Besides the quarterly meetings required by law, ^{Special meetings.} there shall be meetings at such other times as the exigencies of the service, in the opinion of the President or Chairman, may require.

9. In the absence of the President of the Board a ^{President.} member, elected by the Board as Chairman, shall preside; and, in the absence of both President and Chairman, the ^{Chairman.} Board shall designate one of the members present to act as Chairman.

10. Five members shall constitute a quorum of the ^{Quorum.} Board; and in the absence of a quorum, the members present, if not less than three, may resolve themselves into an executive committee for the transaction of all ^{Executive com-} business, except the making or annulling of contracts.

11. One of the Secretaries, by direction of the Chair- ^{Notice of meet-} ing, shall give notice to the members of the Board of all meetings, regular and special, and of adjourned meetings, between the holding of which more than a day intervenes.

12. All communications to Congress or to other Depart- ^{Communications to Congress and} ments of the Executive shall be made by the Chairman ^{Departments.} or presiding officer of the Board, through the Secretary of the Treasury.

13. The Board shall apply, through the Department, ^{Officers of navy} and army detailed ^{for light-house} for the detail of such officers of the navy and army as duty. inspectors and engineers as may be necessary.

14. The Board shall issue, as occasion may require, ^{Inspections.} special instructions, indicating the frequency of inspections; the objects to be examined, and, in general, all matters relating thereto. Special inspections shall be made by order of the Board, from time to time, by the members and secretaries, and duly reported.

15. The Board shall examine all memorials or appli- ^{Examine memo-} ^{rials, &c., for new} cations for the erection of new light-houses which may ^{light-houses.} be received by or referred to it.

16. The Board shall determine the cases of new light- ^{Cases of new light-} houses, &c., in which, under the law, a preliminary survey ^{houses.} or examination is required.—(Section 2, act approved March 3, 1851.)

17. The Board shall observe the following routine in ^{Routine to be ob-} served. regard to new light-houses for which appropriations are made:

- I. A report made of the necessity of the light, &c.
- II. The site designated and obtained by purchase or

otherwise, and the jurisdiction of the United States over it secured.

III. The plans and estimates of construction, &c., limited by the amount of the appropriation, made and approved.

IV. The buildings, &c., inspected and approved before received.

V. Provision made for lighting, and a suitable keeper appointed.

COMMITTEES.

Committees of Board. 1. There shall be the following standing committees of the Board, to consist of two members each, viz:

I. Committee on Finance.

II. Committee on Engineering.

III. Committee on Light-vessels, Buoys, &c.

IV. Committee on Lighting.

V. Committee on Experiments.

VI. Committee on Contracts.

Special Committees. 2. Special committees, consisting of a like number of members, may also be ordered by the Board.

Members of committees named by Chairman. 3. All committees shall be named by the Chairman—the standing committees at the quarterly meeting in September, and the special committees when ordered by the Board. Vacancies that may occur from time to time shall be filled by him.

4. The Chairman and Secretaries shall be *ex-officio* members of all committees.

5. The committees, both standing and special, shall, at the stated meeting in September, submit to the Board reports on the several subjects confided to them, for use in preparing the annual report to the Secretary of the Treasury.

Action of committees. 6. The committees may originate business upon subjects to which they may desire to call the attention of the Board, but can take no final orders in regard to them unless authorized so to do by the Board.

DUTIES OF THE STANDING COMMITTEES.

Committee on Finance.

Duties of Committee on Finance. The Committee on Finance shall pass upon the estimates of all other committees, presenting them, approved or otherwise, as the case may be, to the Board. It shall also have charge of all matters relating to appropriations; to disbursing accounts, including their examination; to returns of property and title-deeds.

Committee on Engineering.

The Committee on Engineering shall have charge of Duties of Committee on Engineering. all matters relating to the construction, renovation, and repair of light-houses, beacon-lights and day-beacons, fog-signals, spindles, and all other aids to navigation on the land, including the locations, plans, drawings, estimates, methods of building, materials, &c., &c.; also to the preservation and improvement of sites.

Committee on Light-vessels, Buoys, &c.

The Committee on Light-vessels, &c., shall have charge Duties of Committee on Light-vessels, &c. of all subjects relating to light-vessels, fog-signals, buoys, and all other floating aids to navigation, including the locations, plans, models, estimates, modes of construction, &c.

Committee on Lighting.

The Committee on Lighting shall examine into and Duties of Committee on Lighting. have charge of all matters relating to illuminating apparatus, including classification, power, distribution, and kind of light, arc of illumination, &c., materials for illumination, and for cleaning and preserving apparatus.

Committee on Experiments.

The Committee on Experiments shall test the value of Duties of Committee on Experiments. oils and other illuminating materials and accessories, and of lighting apparatus; the modes of distinguishing lights and light-houses, light-beacons and day-beacons, buoys, spindles, &c.; shall investigate the relative value of signals by sound, &c.; the ventilation of light-houses and light-vessels, and their protection from lightning; the modes of preventing corrosion or decay of materials used in the light-house service; and shall make experiments or observations to determine the value, application, or economy in all other matters which the Board, from time to time, may require.

Committee on Contracts.

The Committee on Contracts shall have charge of all Duties of Committee on Contracts. questions arising out of contracts.

CHAIRMAN.

Notices of aids to navigation. 1. The Chairman shall sign all notices to mariners of all changes and extraordinary casualties in the light-house establishment.

Correspondence with Treasury Department, &c. 2. The correspondence with the Treasury Department, the superintendents of lights, the light-house inspectors and engineers, shall be conducted by the Chairman of the Board.

Signing of contracts. 3. All contracts by the Board shall be signed by the Chairman and the appropriate secretary.

Committees convened. 4. The Chairman, when necessary, shall convene the committees of the Board in special meetings.

Regulations, &c., signed. 5. All regulations, instructions, and directions for superintendents, inspectors, engineers, light-keepers, &c., shall be signed by the Chairman.

6. In the absence of the Chairman the Board shall appoint a member to transact the current business thereof.

7. In the absence of both secretaries, the Chairman shall appoint a member, or the chief clerk of the Board, to act as secretary.

SECRETARIES.

Light-house list, &c., prepared annually. 1. They shall prepare annually a list of light-houses, beacon-lights, and light-vessels of the Atlantic, Gulf, Lake, and Pacific coasts of the United States, giving the location, geographical position, derived from the Coast Survey and Lake Survey offices, order, characteristics, height of focal plane, distance visible, &c., &c., of each, which, accompanied by proper charts, shall be printed by the Board for distribution among navigators and others interested in commerce. They shall also prepare, from time to time, for a like purpose, buoy-lists of the districts from data furnished by the respective inspectors, giving the position, colors, description, bearings of prominent objects, &c., &c.

Buoy lists of districts prepared from time to time. 2. They shall prepare all the necessary forms for estimates, disbursing accounts, property returns, contracts, &c., &c., required in the light-house service, which, when approved by the Board, shall govern all connected therewith.

Forms for estimates, accounts, &c., prepared. 3. They shall prepare all additional rules, regulations, and instructions for superintendents, inspectors, engineers, keepers, &c., &c., which, when approved by the Board, and signed by the Chairman, shall be duly issued.

Papers, reports, &c., prepared for committees. 4. They shall prepare such papers, reports, &c., and collect all such information, as may from time to time be necessary for the action of the committees.

5. They shall submit, when necessary for the information of the Board, at its meetings, a digest of the reports of superintendents, inspectors, engineers, and keepers. Digests of reports submitted to the Board.

6. They shall conduct the correspondence with the employés of the light-house establishment, and the miscellaneous correspondence. Correspondence with employees.

7. They shall examine the estimates and disbursing accounts of superintendents, inspectors, and engineers, and, if according to the regulations of the Board and the established routine, approve them; if otherwise, or wanting in economy, they shall suspend or refer them to the appropriate standing committee or to the Board. When the disbursing accounts are finally approved, they shall transmit them to the proper officers of the Treasury. Estimates and accounts examined. When approved.

8. They shall arrange and direct the duties of the clerks, draughtsmen, messengers, &c., of the Board, subject to the approval of the Chairman.

9. In the absence of either secretary, his duties shall devolve upon the other; and, in case of the absence of both, upon either a member of the Board or the chief clerk, as the Chairman may elect. Duties of clerks, &c., arranged.

10. The naval secretary of the Board shall keep, under the direction of the Chairman, the journal of its proceedings. He shall have charge of the office and its business, except so much as may be assigned to the engineer secretary, and there shall be under his charge the details relating to— Special duties of naval secretary.

The light-vessels, floating beacons, buoys, and sea-marks.

The supplies of stores, of oil, and other materials of illumination.

The salaries of keepers, attendants, &c., and all other current expenses of light-houses, light-vessels, beacons, buoys, &c.

The records, books, papers, and stationery of the Board.

Office and other expenditures.

Returns of inspections, &c., &c.

General estimates, &c., &c.

11. The engineer secretary is charged, under the direction of the Chairman of the Board, with the duties of the engineering branch of the light-house establishment, as follows: Special duties of engineer secretary.

The preparing of the plans, specifications, and estimates, and the construction, renovation, and repair of light-houses, permanent beacons, and sea-marks, and the preparing of all projects, &c., for the committee on engineering, which it may require.

12. The examination of reports of inspectors and engineers, submitting to the Board such suggestions and remarks in relation to the construction, repair, &c., referred to therein, as may be deemed important.

LIGHT-HOUSE DISTRICTS.

FIRST DISTRICT.

Embracing all lights, &c., from northeast boundary, Me., to Hampton harbor, N. H.

SECOND DISTRICT.

Embracing all lights, &c., from Hampton harbor, N. H., to Gooseberry point, Mass.

THIRD DISTRICT.

Embracing all lights, &c., from Gooseberry point, Mass., to Squam inlet, N. J., including Lake Champlain and Hudson river.

FOURTH DISTRICT.

Embracing all lights, &c., from Squam inlet, N. J., to Metomkin inlet, Va., including Delaware bay and tributaries.

FIFTH DISTRICT.

Embracing all lights, &c., from Metomkin inlet, Va., to New River inlet, N. C., including Chesapeake bay and tributaries, and Albemarle and Pamlico sounds.

SIXTH DISTRICT.

Embracing all lights, &c., from New River inlet, N. C., to Cape Canaveral light-house, Fla., inclusive.

SEVENTH DISTRICT.

Embracing all lights, &c., from Cape Canaveral light-house, Fla., exclusive, to Egmont Key, Fla.

EIGHTH DISTRICT.

Embracing all lights, &c., from Egmont Key, Fla., to Mississippi river and the western extremity of Lake Pontchartrain, La., inclusive.

NINTH DISTRICT.

Embracing all lights, &c., from Mississippi river, and the western extremity of Lake Pontchartrain, La., exclusive, to Rio Grande, Tex.

TENTH DISTRICT.

Embracing all lights, &c., on Lakes Erie and Ontario, and rivers St. Lawrence and Niagara, and their tributaries.

ELEVENTH DISTRICT.

Embracing all lights, &c., on Lakes St. Clair, Huron, Michigan, Superior, and in Green bay, and their tributaries.

TWELFTH DISTRICT.

Embracing all lights, &c., on the Pacific coast, including the Straits of Fuca.

RULES, REGULATIONS, AND INSTRUCTIONS.

Inspectors' duties. I. Inspectors assigned from the army or navy are charged in their respective districts with the general and special care of light-houses, beacons, light-vessels, buoys, and other aids to navigation, and with making, in the absence of the engineers, all such repairs, renovations, and improvements in light-houses, &c., as require, in their opinion, immediate attention.—(Section 12, act approved August 31, 1852.)

Inspect once a quarter. II. Inspectors provided with light-house and buoy tenders are required to visit the lights once a quarter, if practicable, provided it can be done without detriment to other and more important duties in the districts. Those who are not provided with tenders, or in cases in which the tenders cannot be spared from the current service, shall report the facts to the Board whenever it may be necessary to make a tour of inspection, and await instructions upon the subject.

III. Inspectors are required to make quarterly reports of the condition and wants of such of the light-houses, light-vessels, and other aids to navigation as were visited by them during the quarter, and of the state of the buoyage, stakage, &c., in their respective districts, accompanied by a list of corrections of the printed buoy lists. Those

Lights, &c., to be inspected in regular order. lights, &c., unavoidably omitted in one quarter, will be taken up first, in regular order, during the ensuing quarter, and so on until all in the district shall have been visited, examined, and reported upon.

To make quarterly reports of services. IV. Reports shall be made by inspectors of services performed, at the close of each quarter, dating from the 1st

Special reports. of January; and special reports on both general and special subjects as frequently as the interests of the service may render necessary.

To report special and general information. V. Superintendents, inspectors, and engineers are required to report to the Board, as often as the exigencies of the service may demand, all the special and general information in relation to the light-house service, to render the aids to navigation efficient and reliable, and the service systematic and economical in its administration.

When authorized to travel. VI. Inspectors are authorized to travel on light-house service, when public means are not provided or available, only by authority of the Board, unless in cases of emergency, requiring prompt action, to restore aids to navi-

gation, or render them efficient, when the facts and circumstances will be reported without delay.

VII. If, from any cause, an inspector of a light-house district is prevented from performing his duties, he shall report without delay to the Board; and the engineer of the district, on being informed, will see that the instructions to the inspector are carried out, until otherwise directed by the Board.

VIII. Inspectors will make returns, on the 1st of January and 1st of July, of all supplies received or procured, expended or remaining on hand; of all duplicate and spare buoys and their appendages; of all spare anchors, chains, &c., for light-vessels; and of all machinery, tools, and materials, &c., for repairs of light-houses; and, in addition thereto, on the 1st of July, they shall make return of all office furniture, books, and miscellaneous articles not embraced in other property returns; and of all illuminating apparatus, lamps, burners, &c.; and inventories of all movable articles, supplies, &c., belonging to each light-house, light-vessel, and buoy tender.

IX. In all cases of damage to lights and other aids to navigation, seriously affecting their usefulness, and rendering navigation hazardous, the inspector shall make the necessary temporary repairs without delay; but in cases in which the public interest will not suffer by delay, a detailed estimate of the probable cost of the repairs should be promptly submitted to the Board, and authority obtained to make them.

X. In cases of ordinary casualty likely to affect the safety of navigation, the inspector shall issue a proper notice of the same, in the name of the Board, under the marine head of a newspaper, and transmit one or more copies to the Board; all such notices being inserted but once in any paper. But in all other cases of changes of aids to navigation, or of new or improved aids, the necessary data for preparing the notices shall be transmitted to the Board, which will issue the usual notice to mariners in placard form, to be sent to superintendents, inspectors, and others, for distribution.

XI. Light-keepers shall transmit to the inspector of the district, at the close of each quarter, two of the triplicates of their quarterly returns, &c., and, at the close of each fiscal year, two of the triplicates of their annual returns, &c., the retained triplicate in each case being for the station. For these returns blank forms will be furnished by the Board, through the inspector.

XII. Inspectors shall examine all returns, &c., of light-keepers, and, if found correct, verify them, transmit one to the Board, and retain the other for the office. If incor-

Duties of inspector
to be performed by
engineer in case of
necessity.

Annual returns of
light-house fix-
tures, &c.

Cases of damage
to lights, &c., re-
pairs to be made
promptly, &c.

Authority to be
asked to make ex-
penditures.

Notices to mari-
ners in cases of
ordinary casualty.

Notices to mari-
ners in cases other
than casualty.

Light-keepers
quarterly and
annual returns.

Inspectors to ex-
amine returns, &c.

rect, they shall return them to the light-keepers, calling their attention to the errors requiring correction.

Report neglect of duty on part of keepers.

XIII. Inspectors are required to make special reports of all cases in which light-keepers do not conform to the instructions and directions of the light-house service, in the care and management of the lights intrusted to them.

Failure of keeper to do his duty.

XIV. In all cases wherein keepers and others have failed to perform their duty, the inspector shall inform the Board, without delay, of the facts and circumstances, and accompany the communication with such explanations as the delinquent may offer.

Dismiss drunken light-keepers, and report facts.

XV. Superintendents, inspectors, and engineers are authorized and required to discharge promptly any light-keeper found in a state of intoxication at any light-house or on board of any light-vessel, and to employ a substitute until the facts can be reported for the action of the Department.

Illuminating apparatus to be kept adjusted and in good order.

XVI. Inspectors are required to see that the illuminating apparatus is kept in proper adjustment, and well cleaned and attended to at each light-house and on board of each light-vessel, and that the printed instructions and direc-

Particular paragraphs to be pointed out to keepers.

tions are conformed to by the keepers. They are required to point out and explain to the keepers the paragraphs which relate specially to the manner of attending to the lamps, revolving machinery, and illuminating apparatus; the manner of keeping the account books of supplies received, expended, and remaining on hand, and

Instruct light-keepers in their duties.

of making quarterly and other returns, &c. When necessary, they should also instruct the keepers in cleaning, managing, regulating, and adjusting the lamps, burners, revolving machinery, and all parts of the illuminating apparatus, and in the use of the tools and implements, and in the daily and nightly routine duties of the service.

Special attention to sea-coast lights, light-vessels, &c.

XVII. While it is of the greatest importance that all the lights and other aids to navigation should be kept in a reliable and efficient state at all times, yet the primary and secondary sea-coast lights, light-vessels off the coast and at the entrances to bays, sounds, and harbors, and the outer bar and channel buoys, demand the special care and attention of the inspectors and others in light-house service, and particularly during the winter months.

Keepers to be nominated for new light-stations.

XVIII. Light-keepers will be nominated by the local superintendents, and when such nominations are approved by the Department, letters of appointment will be forwarded to the Board for record and transmission.

XIX. When new light-houses or light-vessels are advanced in construction, the superintendent of lights of the district will be notified, in order that he may nominate to the Department, through the Board, the principal and the authorized number of assistant keepers.

XX. Superintendents of lights will select keepers and their assistants with particular reference to their fitness for and capacity to perform the duties required of them. Capable men to be selected as keepers.

XXI. Assistant keepers must not be under 18 years of age. They must be able to read and write, and be in every respect competent to attend to the duties of the keeper during his absence. They are required to observe the orders of the keepers, and to be subject to them in all matters connected with the duties of the establishment; and any disobedience of their orders will be held as a sufficient cause to recommend that they be discharged. Assistant keepers to be not under 18 years of age, and must obey the orders of the principals.

XXII. Whenever an assistant keeper is to be appointed at a light-station, the keeper will be allowed to select the person, who will be nominated by the superintendent of lights for appointment, unless, in his opinion, there should be good and sufficient reasons for not doing so; in which event he will report the facts of the case when he nominates another person; but in case there is no objection to the person named by the keeper, it will be the duty of the superintendent to nominate him. Principal keepers, as far as possible, to select their assistants.

XXIII. Men of intemperate habits, and those who are otherwise mentally or physically incapable of performing the duties of light-keepers, must not be nominated for appointment by superintendents of lights. Physical or mental disability, and intemperance, to be guarded ag'inst.

XXIV. Women and servants will not be employed in the management of lights, except by the special authority of the Department. Women and servants not to have charge of lights.

XXV. In case of the death or resignation of any light-keeper or assistant, it shall be the duty of the superintendent of lights of the district to select, if for a light-vessel, In cases of death or resignation of keepers; nominations, how to be made. a suitable and competent person to supply the place so vacated, and nominate him, through the Board, to the Department; but if the interests of the public service demand it, the superintendent is authorized to place the nominee immediately in charge of the light, subject to the approval of the Department.

XXVI. Light-keepers, when appointed, will receive instructions from the superintendent, inspector, or engineer, as to the time of entering upon their duties, and will be paid at the rates stipulated in their appointments, from the date at which they actually enter upon their duties, and no longer. Light-keepers to be paid while actually employed, and for no longer time.

XXVII. Neglect of duty on the part of a keeper, in Neglect of duty. absenting himself from the light; in failing to keep the apparatus in good order; in an indifference to his trust; or in failing to give timely notice of the want of oil, wicks, or chimneys, or of any damage to the apparatus calculated to impair the usefulness of the light, will be reported without delay to the Board.

Annual reports to be made to the 1st October.

Subjects to be embraced in annual reports.

Additional aids.

Authority to be obtained for employing persons in light-house service.

Laborers to conform to usages of locality.

Time of commencing and ending work, and number of hours to constitute a working day.

Distinctions to be determined by L. H. Board.

Preliminary survey.

Information to be given of the locality when on public land before commencing work.

XXVIII. Inspectors and engineers shall make their annual reports of operations in their respective districts, or of their respective works, to the 1st of October of each year, and transmit them to the Board in time to reach the office

by the 20th of the same month. The annual report should embrace, in addition to the detailed account of the operations during the preceding year, an account of the condition of the different aids to navigation under their charge, and recommendations for such additional aids as the interests of navigation may seem to demand, with an estimate of cost of each; also, recommendations for the discontinuance of useless aids, and explanations therefor.

XXIX. Authority must be obtained before employing any person for any duty or for any service in connection with the construction or repair of light-house structures or their appendages, or for any other purpose connected with the light-house establishment, except mechanics and day-laborers, whose wages should not exceed the current rates of the locality or vicinity.

XXX. All mechanics and laborers will be required to conform to the usages of the locality or neighborhood, which determine the number of working hours per day, in both winter and summer, except in cases where engineer officers or others superintending works make special agreements with them as to the time of commencing and ending work, and the number of working hours of each day, as the interests of the public service may demand.

XXXI. The order or class and characteristic distinction of all lights, and the characteristic distinctions of all aids to navigation, will be fixed by the Board, and no change in them will be made by any superintendent, inspector, engineer, or other person, without authority from the Board; and no authorized change shall be made until after due public notice shall be given according to the prescribed mode.

XXXII. In all cases in which "preliminary surveys are necessary to determine the site of any proposed light-house or light-boat, beacon or buoy, or to ascertain more fully what the public exigency demands, the Secretary of the Treasury shall thereupon direct the superintendent of the survey of the coast of the United States to perform such duty on the seaboard, and the colonel of the corps of topographical engineers to perform such duty on the northwestern lakes."—(Section 2, act approved March 3, 1851.)

XXXIII. In all cases in which light-house establishment structures are authorized to be erected upon lands belonging to the United States, it will be the duty of the engineer or other officer of the works to transmit to the Board all necessary information relating to the locality and extent

of site, &c., with the metes and bounds, and await instructions before commencing the structures, or expending any money thereon.

XXXIV. When a light-house, beacon, or other aid to navigation, is authorized to be erected upon land which has not been reserved from sale, or set apart from the public domain by order of the President, for light-house or other public purposes, it will be the duty of the engineer charged with the erection of the buildings, or the inspector of the district, under special instructions from the Board, to visit the locality, make a careful examination of it, ascertain the owner of the land, and for what price the quantity for the required purposes may be purchased; and report all the facts, with such remarks as may be necessary to a clear understanding of the subject, to the Board.

XXXV. "No land shall be purchased on account of the United States except under a law authorizing such purchase."—(Section 7, act approved May 1, 1820.)

XXXVI. No public money shall be expended on any site, or land purchased by the United States for erecting thereon any light-house, beacon, or other light-house establishment structure, until the written opinion of the Attorney General shall be had in favor of the validity of the title, and the consent of the legislature of the State in which the land or site may be shall be given to the purchase.—(Sections 1 and 3, act approved Sept. 11, 1841, and circular Attorney General's Office, Dec. 28, 1848.)

No public money
to be expended on
any site until the
title is approved
by the Attorney
General of the
United States.

XXXVII. When the purchase of a site for a light-house or beacon is authorized, the officer charged with the duty will cause a survey to be made by a competent sworn surveyor, under his direction, of the quantity of land authorized to be purchased; the bounds to be correctly set off by durable marks, and a plat on a proper scale, with the metes and bounds, to be made, signed by the surveyor, and certified by him or by himself. The deed conveying to the United States, in fee simple, a full, clear, unconditional, and unencumbered title of the site or land, will be drawn in due legal form, setting forth distinctly and explicitly the metes and bounds as described in the plat, which should be attached thereto. When the deed is duly executed, it will be forwarded to the Board, with all the papers necessary to render it a valid title to the United States.

Lands to be sur-
veyed by a sworn
surveyor.

Deed, &c.

XXXVIII. When the title to a site for a light-house, beacon, &c., shall have been reported upon favorably by the attorney of the United States for the district in which the land lies; is approved by the Attorney General according to law; the jurisdiction is ceded to the United States by authority of the State in which it lies, and the deed recorded in the proper office of the county or town; the

Title reported up-
on by district attor-
ney, and approved
by Attorney Gen-
eral of the United
States.

consideration money agreed upon will be paid, on proper vouchers, to the party or parties making the conveyance.—(Section 7, act approved May 15, 1820, and section 3, act approved September 11, 1841.)

Examination of foundation, &c.

General report on site and proposed structure.

Submit sketch, &c.

Engineer officers detailed for light-house duty.

Works to be inspected.

Determine quality and quantity of supplies and materials.

Wharves, &c., to be estimated for and authorized before erecting them.

Detailed report to be made. Plans to be approved before expenditures are made.

Works to be visited during their progress.

XXXIX. When the title is perfected, the engineer or other officer charged with the work will repair to the site and make a careful examination of it; submit a sketch of the environs, showing the location of the proposed buildings, the bearings of the light or beacon, &c., as the case may be, from the sea or neighboring channels, and its relation to them and the neighboring lights, with a report to the Board. The report should embrace also the rise and fall of tide; the height of the site above mean sea, lake, or river level; the character of the foundation, whether firm and permanent, or soft and yielding, rendering an artificial foundation necessary; the arc of the horizon to be illuminated, and the required range of the light to meet the wants of navigation. Designs, based upon these data, will be prepared for the structure or structures, embracing drawings in plan, section, and elevation, with the most important details; and a detailed estimate of the cost of the entire work.

XL. Engineer officers detailed on light-house duty shall superintend the construction and renovation of light-houses assigned them in their respective districts, and, in their absence, the engineer secretary of the Board, or authorized clerk of works under his general and special supervision and direction.—(Section 9, act approved March 3, 1851.)

XLI. Engineer or other officers in charge of light-house works of construction or of repair, are required to inspect, or cause to be inspected by a competent and reliable person, all supplies and materials required for them; determine the quantity and quality of the different kinds, and receive or reject them, as they may be found of good or of bad quality, or in conformity or non-conformity with the contract.

XLII. When it becomes necessary, in view of any construction, to erect wharves or other structures, or to purchase any vessel, scow, or boat, for the economical and safe landing or preservation and protection of the materials, or for otherwise facilitating the operations connected with the works, plans and estimates, accompanied by a detailed report, setting forth the necessity, economy, and utility of the proposed outlay, will be transmitted by the engineer or other officer in charge to the Board for approval.

XLIII. Engineer officers charged with the superintendence of light-house works, shall visit them for the purpose of inspection and supervision as often as the interests of the service may demand; but in all cases in which it may be

necessary to travel beyond the limits of the several works in progress under their charge, and public means of transportation are not provided, application shall be made to the Board to make the necessary journey, and in cases of emergency, not admitting of delay, a report shall be made, setting forth the object or necessity for the travel.

XLIV. Engineer or other officers will be held responsible for the execution of all works of construction, repair, or alteration intrusted to them, in conformity to the plans and specifications approved by the Board.

XLV. When a light-house at a new station is so far advanced towards completion as to indicate the probable time it may be completed, and the light exhibited, the officer in charge will transmit to the Board a detailed description of the site, structure or structures, embracing the following points, viz:

1. The magnetic bearings, and the approximate or true distances from the tower to the most prominent objects in the vicinity likely to catch the eye or to attract the attention of the mariner.
2. The height of site of the tower above mean sea level.
3. The height of the focal plane above the base of the tower.
4. The height of the focal plane above mean sea level.
5. The color and description of the tower, lantern, and keeper's dwelling or dwellings.
6. The order of illuminating apparatus.
7. The arc of the horizon illuminated.
8. The distinguishing characteristic of the light; if revolving, the intervals and duration of flashes and eclipses.
9. The day on which it is proposed to light it for the first time.
10. The latitude and longitude of the tower, stating authorities.
11. The directions to guide mariners in approaching or passing the light.

XLVI. The necessary data for preparing notices to mariners of new lights, and of changes in old ones, should be transmitted by the engineer, or other officer in charge, to the Board, as far in advance of the time proposed for exhibiting the new light, or the change in the character of the old one, as practicable, and always sufficiently in advance to give warning to navigators.

XLVII. Light-house towers, keepers' dwellings, day-beacons, and other day-marks, will be distinguished by shape, arrangement, and color, according to the peculiarity of the respective localities, the kind of background, and the characteristic features of adjacent structures. When new towers and buildings are erected, the old ones will

Not to be changed without authority.
be removed, so as to preserve the general appearance of the site from seaward. Buildings are not to be erected, nor the color changed, nor trees cut down, nor any other change made at any light-station, without authority of the Board; and in case this regulation is disregarded by any keeper or other person employed in the light-house service, it shall be the duty of the superintendent, inspector, engineer, or other officer, to report it to the Board.

Classification of lights. **XLVIII.** Light-houses will be classed as follows:

1. Primary sea-coast lights.
2. Secondary sea-coast lights.
3. Lake-coast lights.
4. Sound and bay lights.
5. Harbor and river lights.
6. Beacon, pier-head, &c., lights.

Primary lights.

XLIX. Primary sea-coast lights will mark the principal capes and headlands along the sea-coast; will be fitted with 1st order catadioptric apparatus, and be elevated from 150 feet to 200 feet above the level of the sea.

Secondary lights.

L. Secondary sea-coast lights will mark the secondary points or headlands along the sea-coast, and the approaches to bays, sounds, &c.; will be fitted with 2d order catadioptric apparatus, and be elevated from 110 feet to 140 feet above the level of the sea.

Lake-coast lights.

LI. Lake-coast lights will mark the most prominent points or headlands, and the entrances to the most important harbors; will be fitted with 2d and 3d order catadioptric apparatus, and be elevated from 60 feet to 100 feet above the level of the lake.

Sound and bay lights.

LII. Sound and bay lights will mark the most prominent points and headlands, islands, &c., on the large bays and sounds; will be fitted with 3d and 4th order catadioptric apparatus, and be elevated from 40 feet to 100 feet above mean low water.

Harbor and river lights.

LIII. Harbor and river lights will mark the entrances to harbors and the channels or obstructions in rivers; will be fitted with 4th, 5th, or 6th order catadioptric apparatus, and be elevated from 25 feet to 50 feet above mean low water.

Beacon-lights.

LIV. Beacon-lights will mark piers, wharves, and serve as ranges for, and indicate channels, &c.; will be fitted with special lens apparatus, or with 5th or 6th order catadioptric apparatus, and be elevated to meet the wants of the particular locality within the range and power of the apparatus.

Distinctions lights.

of **LV.** Lights will be distinguished in general as follows, viz:

PRIMARY SEA-COAST LIGHTS.

1. One, fixed.
2. Revolving, with a flash every thirty seconds.
3. Revolving, with a flash every minute.
4. Revolving, with a flash every one minute and thirty seconds.
5. Revolving, with a flash every two minutes.
6. Revolving, with a flash every three minutes.
7. Revolving, with a flash every four minutes.
8. Fixed, varied by flashes, (short eclipses;) flash every thirty seconds.
9. Fixed, varied by flashes; flash every minute.
10. Fixed, varied by flashes; flash every two minutes.
11. Fixed, varied by flashes; flash every three minutes.
12. Fixed, varied by flashes; flash every four minutes.
13. Eclipse, with prolonged flash every ten seconds.
14. Eclipse, with prolonged flash every fifteen seconds.
15. Eclipse, with prolonged flash every twenty seconds.
16. Two, fixed.
17. One fixed and one revolving or flashing.

Primary sea-coast
lights.

SECONDARY SEA-COAST, LAKE-COAST, SOUND, AND BAY LIGHTS.

1. Fixed.
2. Revolving, with flashes and eclipses, as in the primary series.
3. Fixed, varied by flashes, as in the primary series, or varied by alternate red and white flashes.

Secondary sea-
coast, &c., lights.

HARBOR, RIVER, CHANNEL, AND BEACON LIGHTS.

1. Fixed in general; and—
2. Green or red, for pier-head and other places, where it may be found necessary to employ those distinctions.
3. Range lights.

Harbor, river, and
beacon lights.

LVI. In making inspections of light-houses and beacon-lights, the following must be carefully observed:

1. The repairs needed to the tower and buildings.
2. The renovations and improvements needed at the station.
3. The condition of the grounds, enclosures, &c.
4. The condition and cleanliness of the lantern, inside and outside.
5. The condition of the illuminating apparatus, its cleanliness, adjustment, and state of preservation.
6. The condition of the revolving machinery and weights, fly or regulator, &c.; the time of flashes and

Objects to be par-
ticularly observed
in making inspec-
tions.

eclipses, and their duration, as compared with the time given in the list of lights: and, in case they differ, to make them conform to the prescribed time.

7. The condition of the lamps, burners, and trimming-room supplies and implements.

8. The system, order, and cleanliness in the trimming-rooms, store-rooms, oil-rooms, the steps and floors of the towers, and in the dwelling-houses.

9. The condition of the spare lamps, burners, fog-bell machinery, &c., &c.

10. The condition of the oil butts; whether they are properly closed by air-tight covers, and have the air-cocks shut; whether there is any leakage from either seams or cocks; whether the dripping buckets are hung under the cocks, and the oil-carriers and measures are clean.

11. The condition of spare fixtures and supplies.

12. The state of the journals, of the daily and other expenditure books, log-books, returns of shipwreck and of vessels passing, &c.; and of all the details relating to the receipt and expenditure of supplies and fixtures, and of the service in general.

13. The character of the light; the attention of the keeper to his duties, and his ability to perform them well, &c.

LANTERNS.

Lanterns; four orders of.

LVII. There are four orders of lanterns for light-houses. Lanterns of the same order will be constructed of one size, and upon a uniform plan, according to the drawings and specifications of the Board.

Lanterns—1st, 2d, and 3d orders.

LVIII. Lanterns of the 1st, 2d, and 3d orders, will be used for illuminating apparatus of the corresponding orders; and the 4th order lanterns will be used indiscriminately for apparatus of the 4th, 5th, and 6th orders.

Towers to conform to them.

All light-house towers will be constructed with special reference to the particular order of apparatus and lantern designed for them.

Lamps and burners; uniform system of.

LIX. A uniform system of lamps and burners will be adopted for the several orders of catadioptric and other illuminating apparatus, so that each order of apparatus will be fitted with lamps having burners, wicks, and chimneys of one uniform size and shape.

Lightning conductors for light-houses and beacons.

LX. All light-house towers, keepers' dwellings, beacon-lights, and such day-beacons as may, in the opinion of the Board, require them, shall be provided with lightning conductors of iron or copper rods, screwed together. Copper is preferable to iron. If of iron, the rod should not be less than one inch in diameter for a tower fifty feet high or over, and for one under this height, not

Size.

less than seven-eighths of an inch. If of copper, the rod should not be less than five-eighths of an inch in diameter for the higher towers, and half an inch for the lower. They should terminate in a platinum point elevated above the edifice, one-fourth of the diameter of the circular space to be protected, and be secured by metallic connections with the upper part of the lantern, and by eyes let into the masonry, or by staples driven into the woodwork, and insulated by tubes of glass. In their downward course they should conform, without sharp angles, to the outline of the building, and at the ground be directed outward and downward, to the distance of fifty feet or more, until they terminate in moist earth or the water of a well. If moist earth or a well cannot be conveniently reached, the end of the rod should be inserted into a deep pit surrounded with ashes and powdered charcoal. The escape of the electricity, as well as the inductive action of the rod, will be facilitated by terminating it in a sharp point. Iron conductors should be protected from the weather by a coating of black paint.

Spindles.
Elevation above
the structures.
How secured.

How led.

Iron rods to be
kept well painted
black.

LXI. Oil butts for light-houses will be constructed of the best XXX tin, according to the drawings and specifications of the Board, of two sizes, uniform in shape and dimensions, of one hundred gallons and of fifty gallons capacity. They will have bands over the circular seams, and braces on the bottoms, and be soldered *inside and outside*. A cavity formed by a double rim to hold oil, for the lip of the lid to fit into, to make the butt air-tight when covered, will be provided in each butt. Butts for light-vessels may be varied in shape and dimensions to suit the oil-rooms, provided they do not exceed the capacity of one hundred gallons each; but in other respects they will conform to the drawings, &c., of those for light-houses. Each butt must be carefully examined and thoroughly tested, by using boiling water to detect leaks, before they are painted or received.

Oil butts; how to
be constructed.

Braces.

Air-tight tops.

Examinations and
tests.

LXII. All boats of light-houses should be built plain, strong, and of the proper model and dimensions to meet the special wants of the service at the places where they are to be employed.

LXIII. Light-keepers are required to keep their premises clean and well whitewashed; grounds in order; all the inside painted work of the lanterns well washed, and, when required, to retouch it with paint. The spare articles embraced in the list of allowances must be kept on hand, and examined frequently, and should be kept clean and in order for use. No extra allowances will be authorized them for the performance of any service whatsoever.

Light-keeper to
keep premises
clean.

No extra pay to
be allowed for any
service.

Keepers' dwellings not to be made pilot or boarding-houses.

Light-vessels; construction and class of.

Light-vessels' color and distinguishing marks.

Anchors, chains, &c.

Distinguishing light-vessels.

Electrical conductors; kind and mode of fitting them.

LXIV. Light-keepers' dwellings shall not be converted into pilot stations, nor into boarding or lodging-houses, except by authority of the Department.

LXV. Light-vessels will be constructed in conformity to the plans, models, and specifications of the Board. They will be comprised, as far as practicable, in four classes, of about the following tonnage, viz:

1st class of 230 to 270 tons.

2d class of 150 to 180 tons.

3d class of 100 to 130 tons.

4th class of 50 to 80 tons.

LXVI. Light-vessels will be painted of such color, and be otherwise distinguished, as may be prescribed by the Board; and no change of color or other characteristics will be permitted. Light-vessels will, in general, be painted outside white, red, yellow, cream, or lead color; on the inside, on deck, white, green, lead, or cream color. The cabins will be grained or painted white, and the berth-decks and holds will be whitewashed. The iron-work will be protected by two coats of red lead, painted black; or by coal tar put on carefully, while it is at a temperature of not over 180° of Fahrenheit, as a substitute for the red and black paint. Coal tar, heated to the prescribed temperature, will be used as often as may be necessary to protect the anchors, cables, &c., against the effects of the water, &c.

LXVII. The description and weights of anchors, the sizes and lengths of cables, and the manner and mode of mooring light-vessels at the different stations, will be prescribed by the Board. All shackles, swivels, pins, &c., will be made according to the drawings and specifications of the Board. The inboard end of the chains will be passed twice around the foremast at the keelson, and then lashed to an eye or ring bolt provided for the purpose. No cold chisels or punches will be allowed on board of a light-vessel.

LXVIII. Light-vessels will be distinguished at night by the number and position of the lights, and during the day by color, rig, cages, balls, and other marks, with the name of the station painted on the sides. Boats of light-vessels will be painted the color of the vessels, with the name of the station painted on the sterns.

LXIX. Each light-vessel will be fitted with an electrical conductor, made, unless otherwise directed, of copper-wire rope of proper size, leading from the lower end of the spindle at the truck, securely strapped along the rigging down to the rail, clear of all metallic bands, eyebolts, &c., and of the vessel's side, into the water. It should be of sufficient length to reach below the surface of the water in the heaviest rolling of the vessel. The point should

be made of copper-gilt, tapering from the lower end, and be tipped with platinum. Keepers are required to give their particular attention to the good condition of the electrical conductors, especially during the summer months, and to see that they are led properly into the water.

LXX. When the construction of a light-vessel, designed for a new light-station, is nearly completed, the inspector will prepare and transmit to the Board a detailed description of the hull, spars, moorings, illuminating apparatus, and day-marks, with a general description of the station to be occupied, and report on or about the day she will be ready to be placed at her station and have the light exhibited.

LXXI. When the requisite detailed information for preparing the notice of the proposed placing of a light-vessel can be had in advance, it will be transmitted to the Board before the vessel is placed at the station.

LXXII. When a light-vessel is taken to a new station, in conformity to previous notice, it should be placed in the best position to guide into the channel or to clear the obstruction designed to be marked.

LXXIII. Light-vessels will be placed in position or restored to their stations under the personal superintendence of the inspector, or by a competent and reliable pilot or seaman under his special instructions.

LXXIV. When the vessel is anchored or moored, the latitude and longitude of the position will be determined; the depth of water at mean low tide taken; the bearings and distances to prominent objects, including lights, beacons, and buoys, carefully noted, and a statement thereof, with a general description of the vessel and locality, transmitted to the Board.

LXXV. The number and monthly rate of pay of mates, seamen, and others employed on board of light-vessels, supply-vessels, and tenders, will be regulated from time to time by the Board, according to the necessities of the case, and the rates paid on board of merchant vessels, and in the different branches of the public service, and no changes will be made in the number or rates unless by authority.

LXXVI. No increase in the rates of pay, nor in the number of persons on board of supply-vessels, light-vessels, or tenders, will be made, except by authority of the Board.

LXXVII. Keepers of light-vessels and masters of tenders will be required to receive all rations, fuel, and other articles for the vessels and crews in their charge, and receipt for the same, if of good quality and correct quantity; but in case of refusal to do so, on account of quality or quantity, they must assign their reasons in writing, for the

*New light-vessels;
notice of proposed
placing.*

*Data for notice to
be transmitted in
advance.*

*Light-vessel
placed at new sta-
tion.*

*Light-vessels; by
whom to be moor'd
or anchored.*

*Position of vessel
to be determined.*

*Crews and rates
of pay of seamen,
&c., on board of
light-vessels and
tenders.*

*Keepers to give
receipts for deliv-
eries by contrac-
tors.*

information of the contractor and of the superintendent and inspector.

Keepers account-able for public property placed in their charge. **LXXVIII.** Keepers of light-vessels will be held accountable for all fixtures, rigging, spare rigging, supplies, fuel, rations, and all other public property on board of the vessels under their charge; and in case of any embezzlement, waste, or failure to account satisfactorily for any article of public property, they will be required to pay the full value thereof, and be liable to dismissal by the Department.

Notice of necessary repairs of light-vessels to be given in time to prevent detriment to the public service. **LXXIX.** Inspectors will ascertain and report all needed repairs to light-vessels in time to give proper notice of their removal, and to have the work done at the best season of the year. They will also report, from time to time, all deficiencies in spare anchors, chains, shackles, and swivels.

Precautions to prevent leaving their stations. **LXXX.** All practicable means will be employed and precautions be taken by inspectors to prevent light-vessels from going adrift, and to that end they will carefully examine and test all anchors, cables, shackles, swivels, &c., for light-vessels, before receiving them.

Relief light-vessel to be sent with crew of vessel be-longing to station. **LXXXI.** When a light-vessel parts her cables, or the keeper leaves the station without relief or permission, and there is a relief light-vessel available, the inspector will transfer the keeper and crew to the relief-vessel, and that vessel will be sent to the abandoned station, unless there should be no good reason for retaining the other vessel for repairs or for want of anchors and cables, when that vessel will be returned; but under no circumstances will the keeper or the crew of a light-vessel, removed from the station, be allowed to remain in port in place of the keeper and crew of the relief-vessel, unless in cases of illness or other disability, when the complement will be made up from the relief light-vessel.

Neglect of duty of persons on board of light-vessels. **LXXXII.** In case any keeper, mate, seaman, or other person attached to, or on board of any light-vessel, slips, attempts to slip, injures, or destroys any cable or mooring, or willfully or carelessly allows any light-vessel to get from her station, if a mate, seaman, or other person except the keeper, he shall, upon satisfactory evidence of the fact, be discharged from the vessel; and if the keeper, the facts and circumstances shall be reported to the Board for the consideration and decision of the Department.

Report and investigate causes of abandoning sta-tions. **LXXXIII.** Whenever a light-vessel leaves her station on account of stress of weather, or other cause, the keeper will promptly report the fact, and, as soon thereafter as practicable, the circumstances of the case will be inquired into, and be fully reported to the Board.

Light-vessels leaving their stations. **LXXXIV.** When light-vessels part their cables, or the keepers leave their stations, notice will immediately be

given, and prompt measures taken to replace them; and when the station is again occupied, a further notice will be issued, setting forth the time the vessel left and when restored to the station.

LXXXV. The inspectors will furnish all relief light-vessels with the necessary ground tackle, supplies, &c., and keep them always ready for service.

LXXXVI. Keepers and crews of light-vessels will be allowed to visit their families and friends on shore, from time to time, in such numbers as the duties of the vessels will permit, and in regular turn; but the keeper and mate will not be permitted to be absent at the same time.

LXXXVII. Any abuse of leaves of absence to keepers and crews of light-vessels will be reported, and the compensation of the person offending be stopped, and further leaves refused until authorized by the Board.

LXXXVIII. A log-book provided by the Board, will be kept on board of each light-vessel and buoy tender, and be examined and signed by the inspector at the end of each month; and an abstract, giving a general summary of the work done, places visited, &c., &c., transmitted to the Board.

LXXXIX. The log-books of light-vessels will be examined by the inspectors on their visits, and any failure on the part of keepers to keep them correctly will be reported to the Board.

XC. All absences from light-vessels, (noting the time of leaving and returning,) also the commencement, end, and duration of fogs, with the names of the men charged with the bell, or other fog-signal, will be entered in the proper column of the log-book.

XCI. Strangers and others not belonging or attached to light-vessels, except the officers, crew, and passengers of wrecked vessels who may be compelled to take refuge on board, will not be permitted to live on board, nor to remain at night, unless necessarily detained by stress of weather.

XCI. Inspectors will see that the keepers of light-vessels are provided with ration tables; account books of daily expenditure of supplies; account books of supplies received, expended, and on hand; shipwreck and passing-vessels journals; log-books, and all other necessary forms of returns, according to the regulations, and that they are kept in conformity thereto; also with copies of all instructions for their guidance in the performance of their duties. All regulations, instructions, directions, ration tables, &c., prepared in placard form, will be kept hung up on board light-vessels and tenders, accessible to the crews.

XCIII. When light-vessels are visited, inspectors will observe and note as follows:

Condition of hull, &c. 1. The condition of the hull, spars, standing rigging, boats, sails, awnings, tarpaulins, gratings, day-marks, and equipments in general.

Moorings. 2. The condition of the anchors, cables, shackles, swivels, stoppers, windlasses, bitts, and chain-lockers.

Hold, berth-deck, &c. 3. The condition of the cabins, magazines, holds, berth-decks, berths, bedding, galley, cooking utensils, water tanks and casks, spare rigging, &c., &c.

Life-buoys. 4. The condition of the life and watch buoys.

Illuminating apparatus. 5. The condition of the lamps, burners, reflectors, lanterns, ventilators to lanterns, lantern-houses, hoisting machines, falls, blocks, and sheaves.

Oil, &c. 6. The condition of the oil, oil butts, oil-carriers and measures, supplies of wicks, chimneys, cleaning materials, spare lamps, and burners.

7. The general condition, system, and order of the vessels; cleanliness of illuminating apparatus; the appearance of the lights and the distances at which they are seen.

8. The manner of keeping the account books, returns, log books, &c.

Boats for light-houses not to be used for private purposes, &c. XCIV. Boats of light-vessels will not be used for the personal convenience or profit of the keepers in ferrying passengers, freighting, or wrecking goods, wares, or merchandise; they will not, under any pretence, be detained on shore, or, when alongside of the vessel, remain in the water for a longer time than may be absolutely necessary. When not in use they will be kept hoisted to the davits, and at night and during stormy weather swung inboard, to prevent damage by collisions and the sea. They should be kept free of water, and have all ballasts, stores, &c., removed before being hoisted up and secured. When it is necessary to send a boat from a light-vessel to the shore, she must return without unnecessary delay; and keepers will be held accountable for loss of, or damage to, the boats while absent by their order.

Materials for buoys, dimensions, &c. XCV. Buoys will be constructed of the materials and of the shape and dimensions prescribed by and in conformity to the models, drawings, and specifications of the Board.

Distinguishing buoys. XCVI. All buoys will be colored and numbered in conformity to the provision of the act of Congress approved September 28, 1850, as follows, viz: Entering the harbor from sea, red buoys, with even numbers, (2, 4, 6, 8, 10, &c.,) will be placed on the starboard side of channels. Black buoys, with odd numbers, (1, 3, 5, 7, 9, &c.,) will be placed on the port side of channels. Buoys painted with red and black horizontal stripes, without numbers, will be placed on rocks, shoals, or other obstructions,

Red buoys.

Black buoys.

Red and black horizontal striped buoys.

with channels on either side of them. Buoys painted with black and white vertical stripes, without numbers, will be placed in midchannel, and may be passed close to. Buoys to mark abrupt turning-points in channels, or obstructions requiring a specific and prominent mark, may be fitted with perches surmounted by balls, cages, triangles, &c. Yellow buoys, without numbers, shall be used to mark any danger at a quarantine station.

Midchannel buoys.

XCVII. Day-beacons, stakes, and spindles (except such as are on the sides of channels, which will be colored like buoys) shall be constructed and distinguished with special reference to each locality, and particularly in regard to the background upon which they are projected.

Buoys with perches, &c.

Quarantine buoys.

Background for beacons, &c.

XCVIII. The best qualities and descriptions of paints and oils, for coloring and numbering buoys, must be employed. Iron buoys that are to be painted black, and shackles, swivels, chains, sinkers, ballast-balls, &c., may be preserved and colored by using coal tar at a temperature of 180° of Fahrenheit. Red lead will be used for red buoys; but zinc paints will be used for all wooden buoys in preference to lead paints, when they can be had on reasonable terms.

Paints and oils.

Coal tar for black buoys, &c.

XCIX. The ballast-balls used for keeping nun and can buoys in an upright position must be attached to them by a swivel or shackle, and the chain shackled to the eye in the lower part of them.

Ballast-balls hung close to the buoys.

C. The proper weight of ballast-balls will be determined by actual test, with the requisite length and size of chain attached, for each buoy. Sinkers will be made of iron or granite, according to circumstances, of the prescribed shape and weight.

Ballast-balls and sinkers.

CI. Iron sinkers will be cast, granite sinkers fitted, and shackles, swivels, straps, pins, screws and nuts, and other ironwork on the buoys, made and fitted according to the drawings, specifications, and instructions of the Board.

Sinkers, shackles, and swivels; how to be made.

CII. All buoys must have a sufficient length of chain of the proper size for the depth of water, to allow them to ride safely and easily at the highest tides and in the heaviest seas.

Length and size of chains for buoys.

CIII. Special attention should be given to the examination of chains, shackles, and pins of buoys, to prevent their loss by breaking adrift.

Placing buoys.

CIV. The largest description of buoys ("mammoth or special buoys") are to mark the approaches to channels over seaward bars, and isolated shoals, rocks, or other obstructions to navigation which lie at considerable distances from the coast.

Mammoth or special buoys.

CV. First and second class buoys are to mark the approaches to, the obstructions in, and to point out and placed.

Buoys, 1st and 2d class; where to be placed.

mark the limits of, channels leading to the principal harbors along the coast; and also to mark the channels and obstructions in the large bays and sounds, and those adjacent to the coast.

2d and 3d class buoys. CVI. Second and third class buoys are to mark the approaches to, and the channels and obstructions of, the lesser harbors, bays, &c., &c.

Nun and can buoys to mark principal channels. CVII. Nun and can buoys are to mark the principal sounds, bays, channels, and harbors, and to point out important dangers or obstructions along the coast; and where, as on the eastern coast, they may be damaged, or be swept away by floating ice, they will be removed on the approach of freezing weather, and spar buoys put in their places, and be again restored to their positions in the spring.

Buoys for shoal navigation. CVIII. Small can, nun, or spar buoys are to mark channels and obstructions in shoal-water navigation.

New buoy stations not to be occupied except by authority. CIX. Buoys will be placed on newly-discovered dangers or obstructions, or to render newly-discovered channels available, (except to mark wrecks,) by the authority of the Board only.

Special buoys for special localities. CX. Special buoys, such as spherical (with or without spars or perches) and cask buoys, may be used for special localities; but they must be colored and numbered in conformity to law.

Different channels in the same harbor; how marked. CXI. Different channels in the same bay, sound, river, or harbor, will be marked, as far as practicable, by different descriptions of buoys. Principal channels will be marked by nun buoys; secondary channels by can buoys; and third, or the channels of least depth of water, by spar buoys. When there is but one channel leading to or through a bay, sound, &c., nun buoys, properly colored and numbered, should be placed on the starboard side, and can buoys on the port side of it.

Test of buoys. CXII. No hollow buoy will be received or placed in position until it shall have been examined and thoroughly tested by hydraulic or steam pressure. Buoys of every description will be made in the best manner, of the best materials, and undergo a satisfactory inspection before being accepted, or paid for.

Instructions for placing buoys. CXIII. Buoys should be placed in the best positions to mark the obstructions, or define the channels; and be made to float as little immersed and as nearly upright as possible during the strongest wind and tides. White numbers will be painted, as large as the class of the buoy will admit, on four sides of red and black buoys, and the other distinguishing marks made to show as prominently, and at as great a distance as possible.

No changes to be made except by special authority. CXIV. No changes will be permitted in the character or description of buoys, beacons, or stakes in channels, &c.,

which have been regularly buoyed and marked, except by authority of the Board, or temporarily to meet cases of extreme necessity.

CXV. On that part of the coast on which the ice does not endanger the nun and can buoys, they will be used exclusively for marking the principal channels and obstructions. Nun and can buoys on the southern coast.

CXVI. Duplicate and spare buoys, for casualties and the general wants of the service, will be authorized by the Board at proper points in each district, upon application by the inspectors. Duplicate and spare buoys.

CXVII. All buoys on the coast, and in the sounds, bays, rivers, and harbors, will be changed in the months of April and October. The buoys taken up in April will be cleaned, dried, repaired, painted, properly numbered, and kept in a dry place on skids, in readiness to put down during the ensuing October; and those taken up in October will be put in like order for service in the ensuing April. Buoys to be raised twice a year. To be cleaned, painted, and numbered.

CXVIII. The positions of buoys, beacons, and stakes will be established by magnetic bearings to, and ranges and cross bearings with, prominent objects both on shore and afloat. The bearings from one midchannel buoy to another in the order of passing; to other buoys or objects; the name of the station or position occupied; the color, number, description, class, depth of water at mean low tide, kind of bottom, and such remarks as may be useful to navigators, must be noted in the proper columns of the buoy lists. Positions of buoys defined. By bearings, &c.

CXIX. When changes are made in the buoyage of any particular locality, they must be reported at once to the Board for publication. Changes to be reported.

CXX. Immediately upon the breaking adrift or disappearance of any buoy, due notice will be given by the inspector, who will dispatch the tender, (if available,) or take other prompt measures to have the buoy restored to its position, and, when replaced, will give notice thereof, stating the time of its breaking adrift or disappearance. Notice to be given of the breaking adrift of buoys.

CXXI. Buoy lists will be kept at the offices of the inspectors in their buoy books, and copies of corrections sent to the Board as often as it may be necessary to publish lists. Copies of corrected buoy lists to be sent to the Board.

CXXII. When reliable charts on a proper scale can be had, the positions of all the buoys, beacons, stakes, &c., should be carefully plotted on them, and a copy transmitted with the buoy lists to the Board. Positions of buoys to be marked on charts.

CXXIII. Buoyage will be let by contract only in cases of absolute necessity, and by special authority from the Board. Bids will be made in conformity to the terms of the advertisement and the prescribed specifications. Buoys to be let by contract only in cases of necessity.

CXXIV. When the buoyage of any river, harbor, or other navigable locality, is let out on contract, the con- Buoys kept by contractor.

tractor will be required to keep the buoys in their proper positions, and to raise and replace them, &c., as required by the regulations of the buoy tenders; and it will be the duty of the inspector to see that the terms of the contract are faithfully complied with, before authorizing the disbursing officer to make the quarterly payments for the service.

Buoy tenders; duty of.

CXXV. The buoy tenders will perform, as far as possible, all the buoy service, in addition to the other duties required of them, connected with light-houses, light-vessels, inspections, &c., &c. The buoys will be kept clean and in good order, under the personal direction of the inspectors, and kept ready for any service that may be required of them. The masters and crews will live on board of the tenders, and must perform the daily routine duties of washing decks, &c., and do all other necessary cleaning, with system and regularity.

Tenders not to be used except for light-house and buoy purposes. When not specially employed, to cruise among the buoys.

Advertisements for proposals for rations, &c.

Form of advertisements.

Time of opening bids.

None to be received after the time for opening them.

Advertisements to be issued in designated newspapers only.

When placard advertisements may be issued.

One contractor may furnish fuel and rations for all the light-vessels, &c., adjacent or in the same waters.

CXXVI. The buoy tenders are not to be used for any other purpose than that relating to the lights, buoys, &c.; and when they are not specially employed otherwise, they must be kept looking after the buoys, examining their positions, raising and replacing them, or putting the spare buoys in order for use.

CXXVII. Superintendents of lights will be instructed annually to issue advertisements for bids for rations and fuel for light-vessels and tenders, and for keeping and attending to such buoys by contract as may be designated by the Board.

CXXVIII. All advertisements for proposals for supplies, materials, rations, fuel, or other articles, or for service by contract, will be dated, and will state explicitly the hour of the day, and the week and month, the bids will be opened. No unsealed bid will be received or considered; no bid will be opened before the hour stated in the advertisement; and no bid will be received or considered after the hour for opening the bids shall have passed. Bidders shall have the privilege of being present at the opening.

CXXIX. Advertisements for bids or other matters connected with the light-house service will be published in such newspapers only as may be designated by the Department; but in case there are no newspapers in the district or in the vicinity of the locality at which the service for which proposals are asked, or the subject refers, authority will be given to issue them in placard or poster form.

CXXX. Should the interest of the service require it, one advertisement only will be issued, calling for bids for rations and fuel for all the light-vessels, &c., in the waters adjacent to each other, without regard to the bounds of the district. In that case one contract only will be entered into, and the payments made by one superintendent.

CXXXI. All contracts for annual supplies must be drawn Contracts to be made according to form, and for the fiscal year only.

CXXXII. Written contracts for materials and labor will be made in all cases not specially excepted, and in conformity to the directions of the Board.

CXXXIII. When not otherwise directed, contracts may be entered into for the supply of materials or for doing any separate portions of a work; but each contractor must, as far as practicable, be restricted to one kind of operation, and to one kind of supply or material.

CXXXIV. Light-houses, beacons, and other light-house establishment works, will be constructed under approved contracts upon bids called for by public advertisement, by tenders, or by day's labor, as may be previously determined in every case. When works are constructed by day's labor, all the materials for them will be provided, as far as practicable, by contract, upon public advertisement for tenders, or in some other authorized public manner.

CXXXV. No light-house, keeper's dwelling, beacon, or other structure built, or work done under contract, shall be received or paid for until it shall have been inspected and accepted by the superintending engineer, or other authorized person, under the instructions of the Board.

CXXXVI. Should it be found necessary in the progress of a work to make changes in the workmanship, materials, or supplies of any kind, not provided for in the contract, the facts will be reported to the Board, and if they are authorized, a new contract will be entered into to cover them.

CXXXVII. To guard against the presentation of claims for extra work or materials under contracts, care will be taken to include in the specifications all items of materials and work that can be anticipated, and to add a covering clause to embrace all omissions.

CXXXVIII. No contract entered into for work, labor, materials, supplies, or for services of any kind, can be made transferable, unless by permission of the Department. Contracts must be executed to the entire satisfaction of the officer superintending the work of construction or repair; and the contractor, with his sureties, will be held to his legal responsibilities, and to him all payments will be made.

CXXXIX. Contracts will be made with the lowest responsible bidder, and purchases at the lowest prices for the proper article. But when the lowest bids are considered unreasonable, they will be rejected, and the facts of the case reported to the Board for instructions.

CXL. All contracts will be drawn and executed in Contracts in quadruplicate.

quadruplicate, with two witnesses to the signature of each party. Two will be transmitted to the Board; one will be

One copy to contractor when approved. retained by the officer superintending the work, and the remaining one will be delivered to the contractor. No

Contracts to be approved. contract or agreement will be binding upon the United States, or go into operation, until the contractor shall

Satisfactory guarantees required. have given satisfactory guarantees for the faithful performance of all the stipulations and agreements embraced in it, nor until it shall have been duly approved by competent authority.

Security to be given by contractors. CXLI. Contractors shall give bonds, with good and sufficient security, for the true and faithful performance of their contracts, in which there shall be inserted an express

Members of Congress not to be interested. condition that no member of Congress shall be admitted to any share or part of such contract or agreement, or to

any benefit to arise therefrom.—(Section 3, act approved April 21, 1808.)

Opening and recording bids. CXLII. All bids will be opened publicly at the time and place specified in the advertisement; each one will be read aloud as it is opened, and the name of the bidder and the terms noted in the regular order in which they are

Bids to be transmitted, with abstract, to the Light-house Board. read. When all the bids shall have been opened, read aloud, and duly entered, a copy of the abstract and of the bids will be transmitted to the Board, accompanied by such

Explanatory letter to accompany bids. explanations as may be necessary to a correct understanding of them, and a recommendation of the bid which should, in the opinion of the advertising officer, be accepted.

Deliveries of oil for the light-house service. CXLIII. Oil for the light-house service must be thoroughly and carefully tested and gauged, and the casks must be marked before being accepted or received from the contractor, under instructions from the Board. No oil will be received from any contractor or other person, for the light-house service, unless of the prescribed quality. The tests are a given specific gravity; a proper limpidity at a prescribed temperature; burning in capillary or other lamps, &c. The casks for oil for distribution must be made in the best manner, of the prescribed sizes, free from leaks, and in all other respects reliable.

Tests of the oil. CXLIV. Rations and fuel for light-vessels and tenders must be of good and approved quality, and according to the terms of the contracts; and delivered or furnished, as the case may be, regularly, on or in advance of the day on which the deliveries are required thereby. In the event of complaint of the quality or of the quantity of

Oil casks. the provisions or fuel, it will be the duty of the superintendent to withhold payment until the cause of complaint is removed, and the inspector, or other authorized person, certifies to the fact.

Rations and fuel to be of good and approved quality.

Complaints of quality of rations and fuel.

Complaints to be examined into by inspector.

Payments not to be made until cause of complaint is removed.

CXLV. Contractors will be required to produce the receipts in duplicate of the keepers of light-houses and light-vessels, or other authorized persons, for all rations and fuel delivered, before payments will be made by the superintendent; and no bill or voucher will be passed for rations or fuel which is not accompanied by the receipt of the authorized person for their delivery for the use of the United States.

CXLVI. No superintendent, inspector, or engineer, or other person in the light-house service, shall purchase from any other person connected therewith, or make any contract with any such person to furnish, supplies, or perform services, or make any purchase or contract in which such person shall be admitted to any share or part, or benefit.

CXLVII. No officer or other person in the service of the light-house establishment shall be concerned or interested, either directly or indirectly, in any contract for labor, materials, supplies, or articles of any kind for the use thereof, or shall possess, either as agent or principal, any pecuniary or other interest in any patent, plan, or mode of construction of light-houses, beacons, buoys, spindles, or other aids to navigation; nor in any model, plan, or arrangement of any lamp, burner, illuminating apparatus, fixtures, or appendages thereto; nor in the furnishing, production, manufacture, or sale of any article of supply, material, machinery, or other article required for or used in the light-house service.—(Section 17, act approved August 31, 1852.)

CXLVIII. No advance of public money shall be made on account of any contract or agreement, nor shall payment be made on any contract for the performance of any service, or the delivery of any articles of any description, beyond the value of the service rendered according to the terms of the contract, or of the articles delivered previously to such payment, without authority from the Department.

CXLIX. Superintendents, inspectors, engineers, and others having charge of property belonging to the light-house establishment, are held responsible for its preservation and safe-keeping, and are required to take all proper measures to protect it from loss, damage, waste, or premature decay.

CL. The description and quantities of supplies, implements, and equipments, for maintaining the lights in an efficient state, will be designated in a list of allowances by the Board. Articles not embraced in the list will not be furnished nor allowed at any light-house or on board of any light-vessel.

CLI. The supply-vessels will be charged, under instructions from the Board, with the delivery to the different

Contractors to produce receipts for all deliveries of rations and fuel.

Purchases not to be made from persons in light-house service.

No officer or other person allowed to have any interest in patents, plans, &c., or aids to navigation.

No advance payments to be made.

Officers held responsible for all public property in their charge.

Allowance list to be conformed to.

Supplies to be delivered by the supply-vessels.

lights of such articles, and in such quantities, as may be deemed necessary for one year.

Requisitions for extra supplies.

CLII. Requisitions of keepers for supplies, except such as are made in cases of emergency, arising from casualties, should not be approved until the superintendent or inspector, as the case may be, is satisfied, from personal examination, of the necessity for the articles asked for.

Keepers restricted to regular allowance of supplies.

Light-keepers must be restricted to their regular allowance of stores of all kinds; and all wasteful expenditure will be good cause for withholding their salaries.

Extra supplies to be kept by inspectors.

CLIII. A sufficient quantity of the principal articles of light-house consumption to make up any deficiencies, or to replace those damaged or lost by casualty, will be kept at the headquarters of the different inspectors, and at such other prominent points in the several districts as may be found necessary for distribution as required, and will be accounted for quarterly.

Open purchases; how to be made to meet cases of emergency.

CLIV. Purchases of supplies in open market will be approved to meet cases only of absolute and pressing necessity. All articles procured in the open market must be obtained, if possible, from the manufacturer of the article, or other regular dealer in them.

Bills to be paid at the time of making purchases or receiving work.

CLV. No open or running accounts will be kept with merchants or others on account of the light-house establishment; but when purchases are made, or work is done, the bills will be made out at the time of the delivery of the articles, or of the receiving of the work, be certified to by the officer making the purchases or superintending the work, and be paid on presentation to the disbursing officer.

Supplies or work to meet cases of emergency.

CLVI. When the immediate delivery of articles of supply, &c., or the performance of services, is required by the public exigency, the articles may be procured by purchase or open contract, at the places and in the modes in which such articles are usually bought and sold, from the manufacturer, or from other first hands; and the services may be engaged, as between private individuals, at the current rates.

Oil, &c., not to be purchased in small quantities.

CLVII. To prevent the necessity for purchasing oil, wicks, chimneys, and other light-house supplies in small quantities, timely notice of any deficiency in these articles should be given, that they may be sent from the public store, or be ordered from the manufacturers.

Safe-keeping and application of supplies, &c.

CLVIII. Light-keepers and others charged with the keeping or application of supplies or other property of the light-house establishment will be held accountable for the same, making regular returns of the receipt and expenditure of such supplies or other property to the inspector, and through him to the Board. No article of supply, or other public property, must be used for any purpose

other than that specified in the instructions and directions of the Board.

CLIX. When superintendents and inspectors are called upon by light-keepers for additional supplies, they will cause the articles required to be delivered at the light-station, unless there should appear to be good reason for withholding them; in which case the superintendent or inspector must be satisfied that the light will not be in danger of extinction for want of them during the time necessary to report the facts and receive the instructions of the Board.

CLX. In cases of excessive expenditure, or where the regular supplies for a station run short, explanations must be demanded, and if they are not satisfactory, the inspector will inform the Board of the circumstances, and notify the superintendent charged with the payment of the keeper's salary to withhold a sufficient portion of it to meet the loss until explanations are given satisfactory to the Department.

CLXI. No article of supply, material, fixture, or other property of any description whatsoever, belonging to the light-house establishment, in charge of superintendents, inspectors, or engineers, or of any other person employed in the light-house service, will be delivered to any person, or disposed of in any way, without authority of the Board; and in every case in which transfers are authorized, receipts will be taken in triplicate—one to be transmitted at the time, and a second forwarded with the regular return of property expenditures, &c., to the Board.

CLXII. No article of public property, of howsoever little value, shall be disposed of by gift, loan, or in any other way, for the use or benefit of any one; nor shall any article of condemned or other public property be disposed of at private sale, unless specially authorized by the Board.

CLXIII. When public property is not satisfactorily accounted for, the officer, or other person to whom it was intrusted, will be charged with its value.

CLXIV. In every case having the appearance of fraud or embezzlement of the public property, prompt measures should be taken to arrive at the truth; and if sufficient proof of fraud or embezzlement be obtained, a detailed report will be submitted by the inspector, or, in his absence, the superintendent, to enable the Department to act in the case.

CLXV. If any article of public property be embezzled, or lost, or damaged by neglect or fault of any person in the employment of the light-house establishment, he shall pay the value of such article, or the amount of such damage,

Extra supplies to be furnished when called for.

Keepers' receipts to be taken for extra supplies.

Excessive expenditure of supplies.

Reports to be made, and salary of keeper withheld.

Property not to be disposed of.

Authorized transfers of public property.

Property not to be loaned or used for private benefit.

No private sale permitted of public property.

Property to be paid for when not accounted for.

Fraud.

Lost or damaged property to be paid for, &c.

or cost of repairs, and be further proceeded against at the discretion of the Department.

Property not to be converted to any other than public uses.

CLXVI. It is to be understood that in no manner, and under no pretense or circumstance, shall public property of any sort or value, howsoever small; or the use of public vessels, boats, or vehicles of any kind, or the work of public laborers, mechanics, or teams, or the use of public shops, tools, or machinery, be applied to any but the actual wants of the works in progress, or the general service, under the pains and penalties within the power and authority of the Department.

Tests to be made in the presence of the inspecting officer. To be removed immediately on being accepted.

Not to be tested or gauged after being exposed to the sun.

Oil to be stirred before the tests are made.

Oil to be moved as soon as accepted. Key to be given to person having charge of it.

Stowage of oil casks.

Bungs sealed.

Oil butts to be kept closed to exclude the air.

Oil not to be stored with goods of private individuals.

CLXVII. All oil for the light-house service must be gauged, tested, and marked in the presence of the inspecting and testing officer, and, when accepted, removed to the public depository, or to the supply-vessel. All tests must be made in cellars, or other cool places; and no oil contracted for, or purchased, shall be gauged, tested, accepted, or received, the casks containing which have been in the sun, or exposed to its influence, or been left with the bungs out, exposing the oil to the air.

CLXVIII. All casks or barrels of oil which are to be tested shall be well rolled, or the oil well stirred, before the samples for examination and test are taken from them. All oil for the light-house service will be received or rejected on the prescribed tests alone, and no deviation or departure from these will be permitted.

CLXIX. All oil belonging to the light-house service will be kept in cellars, or other cool places, by itself, and the keys be placed by the inspecting officer in the hands of the superintendent of lights, or other person authorized to take charge of them. Water will be freely applied to the oil casks while in store; the casks will be visited and examined at least once in each week, to detect loss by leakage or otherwise, and every reasonable precaution taken for its preservation and safe-keeping.

CLXX. All casks, while in store, containing oil belonging to the light-house establishment, shall be placed on skids, with bungs up and bilges free; each bung will be covered with tin tacked over it, and tape crossed on the tins, and the four ends sealed with red wax, with U. S. L. H. E. stamped upon it, or some other seal, which the officer in charge of the oil will keep.

CLXXI. Oil butts provided for keeping oil in store must be tightly closed, to prevent injury to the oil by exposure to air.

CLXXII. No oil belonging to the light-house establishment shall be stored in any cellar, warehouse, or other place of deposit, with goods, wares, or merchandise belonging to private individuals.

CLXXIII. When oil is received by a superintendent, inspector, or other authorized person, for distribution among the lights, or to supply deficiencies, &c., it shall be his duty to see that all casks are full, and if they are not, to determine the deficiency of each; and that they are in good order, free from leakage, damage, or other objections; and, when received, to take every precaution for its preservation.

CLXXIV. Masters of supply-vessels will be careful to have all oil casks properly stowed on board of their vessels, bungs up and bilges free, and to take every precaution to prevent loss by damage or leakage. The casks should be drenched with water during the voyage, as often as may be necessary, to keep them tight.

CLXXV. All movable articles of every description belonging to the light-house establishment, must be marked "U. S. L. H. ESTABLISHMENT," before applying them to the service. Bells, cast-iron sinkers, ballast-balls, and all other castings, will be marked in the casting; articles of wood, such as boats and their appendages, water buckets, water casks, harness casks, breakers, &c., handles of axes, and tools of all kinds, will be branded; sails, awnings, tarpaulins, wind-sails, bread-bags, &c., will be marked with stencil plates; and all tools, implements, and fixtures of wrought metal, will be marked with dies. When oil, paints, or other articles of supply are received, the casks, barrels, boxes, or packages, will be marked conspicuously to show the contents, and with "U. S. L. H. ESTABLISHMENT."

CLXXVI. Light-keepers will not be permitted to condemn or dispose of any article of supply, of any fixture, tool, implement, or other property belonging to the United States, but will be required to return or account satisfactorily for all articles worn out, or unfit for use.

CLXXVII. In all cases of removal, resignation, or death of keepers of light-vessels, or of light-houses, an inventory must be made of all the supplies, fixtures, and other property on board of the light-vessel or at the light-station; and in all cases of removal or resignation, receipts must be passed between the retiring and succeeding keepers, and the salary of the former be withheld until he accounts satisfactorily for all the public property placed in his charge.

CLXXVIII. When superintendents, inspectors, or engineers are relieved, they shall turn over to their successors all property, papers, and instructions in their possession, or under their control, belonging to the light-house establishment; deliver full and accurate lists or schedules; take receipts in triplicate, and send one to the Board.

Duty of officer charged with safe-keeping of oil.

Stowage of oil casks on board of supply-vessels.

Movable property to be properly marked.

Castings.

Woodwork.

Sails, &c.

Wrought metal.

Supplies to be marked.

Keepers not to condemn or dispose of public property.

In cases of death or resignation of keepers; nominations, how to be made.

Turn over public property and archives when relieved.

Refuse public property to be sold.

CLXXXIX. Empty oil or other casks, shooks, boxes, &c., will be sold, after due public notice, for cash, on the return of the supply-vessels, and the proceeds credited to the proper appropriation, as in cases of sales of other public property; but no article of light-house supply or fixture, old brass, copper, or illuminating apparatus, boats, buoys, anchors, chains, or other articles used in the light-house service, shall be sold until they are regularly condemned and the sale is authorized by the Board.

Loss of or damage to boats.

CLXXX. All loss of or cost of repairs of damage to boats and their equipments, which, upon investigation, may appear as the result of neglect or improper use of the keepers, shall be deducted from their salaries, subject to the approval of the Department.

Condemned property to be sold at public auction for cash.

CLXXXI. Condemned supplies, materials, or other property to be disposed of, shall be sold for cash at public auction, after due notice, and at such place as the public interests may require.

Property to be bid in.

The officer ordering the sale will bid in or suspend the sale when, in his opinion, better prices may be obtained. Expenses of the sale will be paid from its proceeds. The auctioneer's certified account, in detail, of the sales, and the vouchers for the expenses of

Auctioneer's certificate.

the same, will be reported to the Board immediately after the sale, and the net proceeds be credited to the appropriation to which the property belonged in the accounts of the disbursing officer at the close of the quarter, or the first rendition of his accounts.

Collectors of customs charged with certain disbursements.

CLXXXII. Collectors of customs, acting as superintendents of lights by the direction and authority of the Secretary of the Treasury, shall, in conformity to the proviso to the 7th section of the act making appropriations for light-houses, light-vessels, buoys, &c., approved September 28, 1850, be charged with the payment of salaries of light-keepers; of wages of seamen of light-vessels and of buoy tenders; with the making of contracts for rations and fuel, and with the disbursement of such other funds on account of the light-house establishment as may from time to time be specially authorized and required of them.

Estimates funds.

for CLXXXIII. The superintendents, inspectors, and engineers, shall send to the Board, within the first week of each quarter of the fiscal year, estimates of expenditures required during the quarter for works committed to their charge; but no advances will be made on such estimates until the accounts, accompanied by proper vouchers, for the preceding quarter, shall have been received.

Explanatory statements, &c.

CLXXXIV. The Board shall require from the superintendents, inspectors, and engineers, specifications of the several objects in their estimates for which funds are

required, detailing the reasons for each expenditure in the accompanying letter.

CLXXXV. Disbursing officers shall submit two of their triplicate estimates and requisitions for funds made in conformity to the regulations of the Department. The printed forms will be correctly filled up, and the several sums placed in the columns under the heads of the appropriations on account of which the money is required.

CLXXXVI. In all cases in which funds are required on account of supplies, repairs, buoys, or other services of an incidental character, for which written contracts have not been made and approved, the sums shall be stated under the proper heads of appropriation, and, in an explanatory letter, the authority or necessity (as the case may be) for making the expenditure specified.

CLXXXVII. Requisitions for money shall be made with special reference to the expenditures of the month, and no more money shall be asked for than may be needed for the specified purpose or purposes. Disbursing officers will not be allowed to draw or retain in their hands larger amounts of public money than are actually required to meet the current demands of the service; and in estimating for salaries, commissions, &c., the exact amounts, after deducting available sums in hand, will be stated.

CLXXXVIII. The estimates and accounts of superintendents, inspectors, and engineers, will be examined by one of the secretaries, and, if according to the previous orders of the Board and the established routine, shall be approved; if defective or irregular, or wanting in economy, they shall be suspended or referred to the appropriate standing committee, or to the Board. The estimates and accounts, when approved, shall be transmitted by one of the secretaries to the proper officers of the Treasury.

CLXXXIX. Every officer and other person intrusted with public money or property on account of, or belonging to, the light-house establishment, shall render all prescribed returns and accounts to the Board, where they shall pass through a rigid administrative scrutiny, and the latter be then transmitted to the Department for settlement.

CXC. Vouchers, under the respective heads of appropriation for supplies of light-houses, &c.; repairs, &c., of light-houses; of buoy service; seamen's wages, &c.; of light-vessels and tenders, and of salaries of light-keepers, will be rendered upon one general abstract and account current, according to the printed form; and those for expenditures on account of special works will be made out and rendered on separate abstracts and accounts current.

CXCI. All such accounts shall bear evidence of such an examination and scrutiny under the signature of one of the secretaries of the Board, and the notice of the Depart-

Estimates to be in duplicate.

Estimates for incidental expenses.

Funds to be limited to the actual necessities of the service.

Disbursing officers not allowed to retain large sums in their hands.

Examination of estimates.

Accounts and returns to be made.

Accounts to be examined before being sent to auditing officers.

Rendering, &c., accounts.

Evidence of examination.

ment be called to all accounts and matters of accounts that require or merit it. When an account is defective in any particular, the officer shall be so notified by the Board, in order that he may submit explanations, or take an appeal to the accounting officers and the Department.

Disbursing officers failing to render their accounts to be reported. CXCII. Every disbursing officer having public money to account for, and failing to render his accounts at the times prescribed by the laws and regulations, will be reported to the Department.

Accounts to be examined with reference to authority for making expenditures. CXCIII. Accounts will be examined with reference to the authority for the expenditure, correctness of charges, &c., &c. Errors will be corrected, omissions supplied, and explanations made by the disbursing officers when called upon by the Board. Estimates will be examined at the office of the Board, and such sums only approved as may be considered necessary for the current expenses of the service.

Regulations of Treasury Department to govern in keeping accounts, &c. CXCIV. All disbursements will be made, and accounts kept and rendered, in accordance with the rules, regulations, and instructions of the Department, on the printed forms provided by the Board; and all blank books, blank forms for accounts, returns, &c., of the light-house service, will be furnished by the Board; and no disbursing or other officer will be allowed to incur any expense for their purchase without authority from the Board.

Each appropriation to be charged with its proper expenditures. CXCV. Every appropriation, whether for supplies, repairs, salaries of keepers, &c., or for special works, will be charged with the expenditures made under it; and under no circumstances will the expenditures on account of one appropriation, or under one head of appropriation, be charged to another.

Vouchers. CXCVI. The vouchers shall be made in triplicate, two of which shall be sent to the office of the Board.

Vouchers to show appropriation. CXCVII. All vouchers will show at their head the appropriation on account of which the expenditure is made, and should, if possible, be paid within the month or quarter in which the purchase was made or the liability incurred.

Authority to be obtained before incurring liabilities or making expenditures. CXCVIII. Cases involving the expenditure of money, or incurring liabilities on account of the purchase of supplies or materials, or on any other account not specified in these regulations and instructions, must be submitted to the Board for authority to make the expenditure, or incur the liability.

Bills of anterior date to be considered as claims. CXCIX. When bills are presented to a disbursing officer of a date anterior to the current quarter, they must be considered as claims not within his power or authority to pay until specially authorized by the Board or Department. But this regulation will not apply to salaries or payments on written approved contracts.

CC. Vouchers of explicit bills and receipts, with certificates attached, according to the printed forms, showing the nature, quantity, cost, and any other fact necessary to a clear view of the transaction, will be taken for all purchases and expenditures, except those for labor. Prices will be stated in federal money, and the quantities, as far as practicable, according to the United States standards of weights and measures. When articles furnished by different persons are included in one voucher, the bills of items of the several persons will be received and attached to the voucher as sub-vouchers.

CCI. The certificate of an inspector or superintending officer of works, &c., as to the delivery of supplies or materials, or of the performance of service, will constitute authority to the disbursing officer for the payment therefor. But should the facts set forth in said certificate prove unfounded, the amount shall be charged to the certifying officer, and be credited to the disbursing officer in the settlement of his accounts.

CCII. All payments to creditors of the light-house establishment will be made in the lawful money of the United States.

CCIII. Expenditures for labor; for the hire of the crews of light-vessels; supply-vessels, and tenders, will be exhibited on separate pay rolls. The rolls will give the name, occupation, rate of pay per day, month, or quarter, as the case may be, the beginning and end of the service, and the number of days or months paid on the roll, with a certificate declaring that the services charged were performed and necessary for the objects to which they were applied.

CCIV. No superintendent, inspector, or engineer charged with disbursements on account of the light-house service, shall accept or receive, or transmit to the Treasury Department to be allowed in his favor, any receipt or voucher from a creditor of the United States, without having paid to such creditor the full amount specified in such receipt or voucher. And no officer charged with the safe-keeping, transfer, or disbursement of public moneys on account of the light-house establishment, "shall convert to his own use, in any way whatever, or shall use by way of investment in any kind of property or merchandise, or shall loan with or without interest, or shall deposit in any bank, or shall exchange for other funds" than gold and silver, "any portion of the public money intrusted to him for safe-keeping, disbursement, transfer, or for any other purpose. Every such act shall be deemed and adjudged an embezzlement of so much of the said moneys as shall be so taken, converted, invested, used, loaned, deposited,

Vouchers to be in detail.

Federal currency and weights and measures used in stating accounts.

Sub-vouchers required.

Liability of certifying officers.

Disbursing officers liable only in certain cases.

Payments to be made in United States currency.

Pay rolls.

How to be filled up.

Vouchers not to be received unless paid.

Disbursing officers not to use, &c., public money, except for public purposes.

or exchanged, which is hereby declared to be a felony."—
(Section 16, act approved August 6, 1846.)

Day's labor; how estimated.

CCV. Mechanics and laborers employed by the day will be paid for the actual number of days' work performed by them. When by the month, will be paid on discharge for the number of days, pro rata, calculated from the days in the month.

Blank receipts not to be taken.

CCVI. No receipt shall be given or taken in blank for public money or property; but in all cases it shall be made out in full, with the true date, place, and exact amount of money, or article or articles of property, written out in full before being signed.

Receipts to be signed by the parties entitled to payment.

CCVII. All receipts for money disbursed on account of the light-house service must be signed by the individual or copartnership firm entitled to the payment, or by his or their lawful attorney, administrator, or assignee. If by attorney, administrator, or assignee, the power of attorney, an attested copy of the letters of administration, or the evidence of assignment, as the case may be, must accompany the voucher. In case of inability on the part of the receiver to write his name, his mark must be attested by one or more competent witnesses.

Marks to be attested by witnesses.

CCVIII. Disbursing officers will use the public depositories provided by the Department for keeping the public funds.—(Section 2, act approved March 3, 1857.)

A rigid economy to be enforced.

CCIX. A rigid economy must be enforced in the management of the light-house service. No expenditure will be authorized or permitted which is not necessary to render the aids to navigation efficient.

No extra allowances to be made.

CCX. No officer or other person in the light-house service "whose salary, pay, or emoluments is or are fixed by law or regulation, shall receive any additional pay, extra allowance, or compensation in any form whatever, for the disbursement of public money, or any other service or duty whatsoever."—(Section 2, act approved August 23, 1842.)

Salvage not to be paid without special authority from L. H. Board.

CCXI. Whenever any buoy, or any boat, or other property belonging to any light-house, or light-vessel or tender, is reported to have been found adrift, or otherwise, and is delivered or offered to any superintendent, inspector, engineer, or keeper of any light-house or vessel, and a claim made for its delivery, it will be the duty of the officer to whom the application is made to receive the buoy or boat, or other property, examine into the case, and report the facts to the Board; and in no case will any superintendent, inspector, or engineer, or other disbursing officer, allow or pay salvage, or any demand of the character

Case to be examined and reported.

Salvage not to be allowed under any circumstances without special authority to do so.

of salvage, for any buoy, boat, or other property belonging to the light-house establishment, which may be so picked up adrift, or otherwise, until duly authorized.

Nor shall any anchors, chains, or other articles of moorings lost from any light-vessel, or other vessel or boat of the light-house establishment, be removed by any person not duly authorized to recover them under a contract previously approved by the proper authority; and in the event of any person or persons recovering any anchors, cables, or other property without such authority, the superintendent, inspector, or other officer, as the case may be, shall demand said property; and if it be not delivered upon a written demand, he shall report the facts to the Board for instructions from the Department.

Moorings not to be sought for by unauthorized persons.

Recovered anchors or cables to be demanded.

CCXII. When light-houses are destroyed or light-vessels wrecked, the appointments of the keepers will cease, without formal notice from the Department, after the public property shall have been accounted for and delivered to the authorized agent of the United States, to do which a reasonable time will be allowed.

Appointments to cease after the destruction of light-houses or wreck of light-vessels.

CCXIII. Persons of intemperate habits must not, under any pretense, be permitted to visit or remain on the premises of a light-station; and any violation of this regulation must be met by the most summary legal correction on the part of the superintendent or inspector.

Intemperate persons.

CCXIV. No permission will be given to any person to occupy the site of any light-house, beacon, or other premises of the light-house establishment, nor will any trespass thereon be permitted; and in case of any such trespass, it shall be the duty of any officer or other person of the light-house service to make a report to the Board without delay. Keepers will not be permitted to erect buildings, or make additions or alterations to buildings, on light-house sites.

No permission to be given to occupy sites of light-houses, &c. Trespasses to be promptly reported.

Keepers not to erect or alter buildings.

CCXV. Whenever it is necessary for an inspector, engineer, or other officer of the light-house establishment, to remain at a light-station, he is authorized to occupy one of the rooms of the keeper's dwelling as an office and chamber; and may require the keeper to furnish him board and necessary furniture, for which a reasonable compensation shall be paid. And it shall be the duty of the light-keeper and his assistants to afford to the said inspector, engineer, or other officer, all assistance that may be required with the boat and other means within his charge; and any failure of any keeper to assist, when so called upon, to the best of his ability, shall be, by said officer, immediately reported, through the proper channel, to the Board, for the action of the Department.

Engineers and inspectors authorized to occupy quarters at light-houses.

CCXVI. In all cases of authorized travel on light-house service by persons who are not embraced in any specific law upon the subject, their actual reasonable expenses will be allowed, in lieu of mileage, upon their own vouchers, duly certified and supported by such sub-vouchers as may

Actual traveling expenses to be allowed to persons who are not entitled to mileage.

be obtainable; but the travel must be authorized or approved in all cases.

CCXVII. Keepers of light-houses, and masters of light-vessels and buoy tenders, and other persons employed in the light-house service, are prohibited from publishing any notice or other information, or giving to any newspaper or other publication any information, in relation to lights, buoys, or other aids to navigation, the movements of light-vessels or tenders, or the condition or progress of construction of works or repairs, unless authorized to do so by competent authority.

Communications
to be indorsed and
addressed.

CCXVIII. All official letters, reports, and communications to the Board shall be made on the ordinary size letter paper, (quarto post,) be written on one side, with a margin of one inch on the left for binding, and be folded in three, and indorsed on the middle fold with the name of the writer; his official title; the place and date, and a brief statement of its contents. Every paper inclosed must likewise be so folded, and have the contents indorsed. No communication, except periodical reports, shall treat of more than one subject. The envelopes of all communications, besides being addressed to the Chairman of the Board, should be indorsed "L. H. Service—Official," with the name and title of the writer, and then inclosed in another envelope, which should be addressed to the Hon. Secretary of the Treasury, and indorsed with name, &c., of the writer, as on the inner envelope. Yearly, quarterly, and monthly reports, estimates, requisitions, disbursing accounts, returns, returns of property, &c., &c., shall also be so addressed and forwarded.

Communications
to be acknowledged.

CCXIX. All communications from the Board to persons in the light-house service will be promptly acknowledged, except those which are acknowledgments in themselves.

Seek information
from seafaring
men.

CCXX. All persons interested in navigation should be encouraged to give information of any neglect of duty on the part of those employed in the light-house establishment, as well as information generally tending to the improvement of the light-house service.

Copies of the reg-
ulations to be fur-
nished inspectors,
&c.

CCXXI. Superintendents, inspectors, engineers, and others on light-house service, will each be furnished with a copy of these regulations and instructions, and with copies of the blank forms, &c., for keeping accounts and making returns, receipting for the same, and, when relieved, transferring those on hand to their successors.

By order of the Light-house Board:

W. B. SHUBRICK,
Rear Admiral, and Chairman.

The foregoing rules, regulations, and instructions for the government and management of the light-house establishment must be strictly conformed to, and rigidly enforced by the Light-house Board, and by all officers and others attached to the light-house service, under the orders of the Treasury Department.

S. P. CHASE,
Secretary of the Treasury,
Ex-officio President of the Light-house Board.

TREASURY DEPARTMENT,
Washington City, D. C.

CIRCULARS.

ATTORNEY GENERAL'S OFFICE,
December 28, 1848.

SIR: I have received your letter requesting me to inform you what evidence of title ought to be forwarded by the superintendents of lights to enable me to form an opinion as to the validity of title in each case.

I should deem it necessary, in every case, to be furnished with an abstract of the title, certified by the district attorney, with his opinion thereon, and the proper official certificate against encumbrances.

The title should be traced so far back that the statute of limitations would operate against adverse claims; and it must be made to appear that there are no rights of dower outstanding. If any question arises upon any particular deed or devise, a copy of such deed or will must be furnished.

I have the honor to be, very respectfully, sir, your obedient servant,
 I. TOUCEY.

S. PLEASONTON, Esq.,
Fifth Auditor of the Treasury.

TREASURY DEPARTMENT,
December 29, 1852.

All collectors of customs, whether acting as superintendents of lights or not, are required to afford to the lighthouse inspectors who are appointed in conformity to the 12th section of the act making appropriations for light-houses, light-vessels, buoys, &c., approved 31st August, 1822, all the facilities in their power in the performance of the duties confided to them, by such use of the public buildings, wharves, revenue cutters, &c., &c., as may be required from time to time, and which may not interfere with the proper duties connected with the collection of the revenue.

THO. CORWIN,
Secretary of the Treasury.

NAVY DEPARTMENT,
January 19, 1853.

Commandants of navy yards and stations are required to afford to the inspectors of light-houses who are or may be appointed in conformity to the 12th section of the act making appropriations for light-houses, light-vessels, buoys, &c., approved 31st of August, 1852, all the facilities in their power for the performance of the duties confided to them, by such use of men and boats, and of premises, as

may be required from time to time, and which may not interfere with the proper service or use of the same.

JOHN P. KENNEDY,
Secretary of the Navy.

TREASURY DEPARTMENT,
January 17, 1854.

SIR: I acknowledge the receipt of a letter, under date of the 10th instant, from the Light-house Board, inclosing a copy of a report from the light-house inspector of the _____ district, in relation to the neglect of duty of the keeper of the _____ light-vessel, and, in reply, have to say that, in accordance with its recommendation, the keeper, _____, has been removed, and another appointed in his stead.

I request that imperative orders be given to all keepers of light-vessels to remain on board their vessels, and that they be informed that any dereliction of duty in this respect, on being reported, will be followed by removal.

You will please, at the same time, call the attention of the inspectors to the fact that the Department will not tolerate a mere supervision or constructive performance of duty on the part of such keepers, but requires them to be habitually and constantly at their posts.

Very respectfully, your obedient servant,
PETER G. WASHINGTON,
For the Secretary of the Treasury.

Com. W. B. SHUBRICK,
Chairman Light-house Board, Washington, D. C.

TREASURY DEPARTMENT,
December 12, 1855.

SIR: Your letter of the 11th instant, relative to the exaction of hospital dues from the crews of light-vessels, has been received.

In reply, I have to say that seamen serving on board light-vessels are not considered within the purview of the acts for the relief of sick and disabled seamen, and are exempt from the tax. A medicine chest should be provided on board light-vessels, but no other provision can be made whilst they remain so employed.

This opinion is founded upon the fact that their employment is not of the roving character contemplated by the act, and that whilst employed and receiving wages adequate to their support they are not proper subjects of relief.

I am, very respectfully,
JAMES GUTHRIE,
Secretary of the Treasury.

Com. T. A. JENKINS, U. S. N.,
Secretary Light-house Board.

LAWS UNITED STATES
RELATING TO
LIGHT-HOUSES, BUOYS, BEACONS,
&c., &c., &c.

AN ACT for the establishment and support of light-houses, beacons, buoys, and public piers.—(Statutes at Large, vol. 1, p. 53.)

SEC. 1. *Be it enacted by the Senate and House of Representatives of the United States in Congress assembled,* That all expenses which shall accrue from and after the 15th day of August, 1789, in the necessary support, maintenance, and repairs of all light-houses, beacons, buoys, and public piers erected, placed, or sunk, before the passing of this act, at the entrance of, or within, any bay, inlet, harbor, or port of the United States, for rendering the navigation thereof easy and safe, shall be defrayed out of the treasury of the United States.

SEC. 3. That it shall be the duty of the Secretary of the Treasury to provide, by contracts, which shall be approved by the President of the United States, for building a light-house near the entrance of Chesapeake bay, and for rebuilding, when necessary, and keeping in good repair, the light-houses, beacons, buoys, and public piers in the several States, and for furnishing the same with all necessary supplies; and also to agree for the salaries, wages, or hire, of the person or persons appointed by the President for the superintendence and care of the same.

Approved August 7, 1789.

AN ACT concerning public contracts.—(Statutes at Large, vol. 2; pp. 484-'5.)

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That, from and after the passage of this act, no member of Congress shall, directly or indirectly, himself, or by any other person whatsoever in trust for him, or for his use or benefit, or on his account, undertake, execute, hold, or enjoy, in the whole or in part, any contract or agreement hereafter to be made or entered into with an officer of the United States, in their behalf, or with any person authorized to make contracts on the

part of the United States; and if any member of Congress shall, directly or indirectly, himself, or by any other person whatsoever in trust for him, or for his use or benefit, or on his account, enter into, accept of, agree for, undertake, or execute any such contract or agreement, in the whole or in part, every member so offending shall for every such offense, upon conviction thereof before any court of the United States, or of the Territories thereof, having cognizance of such offense, be adjudged guilty of a high misdemeanor, and shall be fined three thousand dollars; and every such contract or agreement as aforesaid shall, moreover, be absolutely void and of no effect: *Provided, nevertheless,* That in all cases where any sum or sums of money shall have been advanced on the part of the United States, in consideration of any such contract or agreement, the same shall be forthwith repaid; and in case of refusal or delay to repay the same, when demanded by the proper officer of the department under whose authority such contract or agreement shall have been made or entered into, every person so refusing or delaying, together with his surety or sureties, shall be forthwith prosecuted at law for the recovery of any such sum or sums of money advanced as aforesaid.

SEC. 2. *And be it further enacted,* That nothing herein contained shall extend, or be construed to extend, to any contract or agreement made or entered into, or accepted, by any incorporated company, where such contract or agreement shall be made for the general benefit of such incorporation or company; nor to the purchase or sale of bills of exchange or other property by any member of Congress, where the same shall be ready for delivery, and for which payment shall be made at the time of making or entering into the contract or agreement.

SEC. 3. *And be it further enacted,* That in every such contract or agreement to be made or entered into, or accepted as aforesaid, there shall be inserted an express condition that no member of Congress shall be admitted to any share or part of such contract or agreement, or to any benefit to arise thereupon.

SEC. 4. *And be it further enacted,* That if any officer of the United States, on behalf of the United States, shall, directly or indirectly, make or enter into any contract, bargain, or agreement, in writing or otherwise, other than such as are herein excepted, with any member of Congress, such officer so offending, on conviction thereof before any court having jurisdiction thereof, shall be deemed and taken to be guilty of a high misdemeanor, and be fined in a sum of three thousand dollars.

SEC. 5. *And be it further enacted,* That, from and after the passing of this act, it shall be the duty of the Secretary of the Treasury, the Secretary of War, Secretary of the Navy, and the Postmaster General, annually to lay before Congress a statement of all the contracts which have been made in their respective departments during the year preceding such report, exhibiting in such statement the name of the contractor, the article or thing contracted for, the place where the article was to be delivered or the thing performed, the sum to be

paid for its performance, delivery, or the date and duration of the contract.

Approved April 21, 1808.

AN ACT further to amend the several acts for the establishment and regulation of the Treasury, War, and Navy Departments.—(Statutes at Large, vol. 2, pp. 536, 537.)

* * * * *

SEC. 5. *And be it further enacted*, That all purchases and contracts for supplies or services which are or may, according to law, be made by or under the direction of either the Secretary of the Treasury, the Secretary of War, or the Secretary of the Navy, shall be made either by open purchase, or by previously advertising for proposals respecting the same; and an annual statement of all such contracts and purchases, and also of the expenditure of the moneys appropriated for the contingent expenses of the military establishment, for the contingent expenses of the navy of the United States, and for the discharge of miscellaneous claims not otherwise provided for and paid at the treasury, shall be laid before Congress at the beginning of each year by the secretary of the proper department.

Approved March 3, 1809.

AN ACT in addition to the several acts for the establishment and regulation of the Treasury, War, and Navy Departments.—(Statutes at Large, vol. 3, p. 568.)

* * * * *

SEC. 6. *And be it further enacted*, That no contract shall hereafter be made by the Secretary of State, or of the Treasury, or of the Department of War, or of the Navy, except under a law authorizing the same, or under an appropriation adequate to its fulfillment; and excepting, also, contracts for the subsistence and clothing of the army or navy, and contracts by the Quartermaster's department, which may be made by the secretaries of those departments.

SEC. 7. *And be it further enacted*, That no land shall be purchased on account of the United States except under a law authorizing such purchase.

* * * * *

Approved May 1, 1820.

AN ACT to authorize the erection of a light-house on one of the isles of shoals near Portsmouth, New Hampshire, and for other purposes.—(Statutes at Large, vol. 3, p. 600.)

* * * * *

SEC. 7. No light-house, beacon, or landmark shall be built or erected on any site previous to the cession of jurisdiction over the same being made to the United States.

Approved May 15, 1820.

AN ACT concerning the disbursement of public money.—(Statutes at Large, Vol. 3, p. 723.)

SEC. 1. *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled*, That, from and after the passing of this act, no advance of public money shall be made in any case whatever; but in all cases of contracts for the performance of any service or the delivery of articles of any description for the use of the United States, payment shall not [exceed] exceed the value of the service rendered, or of the articles delivered previously to such payment: *Provided*, That it shall be lawful, under the special direction of the President of the United States, to make such advances to the disbursing officers of the government as may be necessary to the faithful and prompt discharge of their respective duties, and to the fulfillment of the public engagements: *And provided, also*, That the President of the United States may direct such advances as he may deem necessary and proper to such persons in the military and naval service as may be employed on distant stations where the discharge of the pay and emoluments to which they may be entitled cannot be regularly effected.

SEC. 2. *And be it further enacted*, That every officer or agent of the United States who shall receive public money which he is not authorized to retain as salary, pay, or emolument, shall render his accounts quarter-yearly to the proper accounting officers of the treasury, with the vouchers necessary to the correct and prompt settlement thereof, within three months at least after the expiration of each successive quarter, if resident within the United States, and within six months if resident in a foreign country: *Provided*, That nothing herein contained shall be construed to restrain the secretaries of any of the departments from requiring such returns from any officer or agent, subject to the control of such secretaries, as the public interest may require.

SEC. 3. *And be it further enacted*, That every officer or agent of the United States who shall offend against the provisions of the preceding sections, shall, by the officer charged with the direction of the department to which such offending officer is responsible, be promptly reported to the President of the United States, and dismissed from the public service: *Provided*, That in all cases where any officer in default as aforesaid shall account to the satisfaction of the President for such default, he may be continued in office, anything in the foregoing provision to the contrary notwithstanding.

SEC. 4. *And be it further enacted*, That no security given to, or obligation entered into with, the government shall be in anywise impaired by the dismissing any officer, or from failure of the President to dismiss any officer, coming under the provisions of this act.

Approved January 31, 1823.

AN ACT in addition to the act entitled "An act for the prompt settlement of public accounts," and for the punishment of the crime of perjury.—(Statutes at Large, vol. 3, p. 771.)

* * * * *

SEC. 3. *And be it further enacted*, That if any person shall swear or affirm falsely touching the expenditure of public money, or in support of any claim against the United States, he or she shall, upon conviction thereof, suffer as for willful and corrupt perjury.

Approved March 1, 1823.

AN ACT to authorize the building of light-houses, and for other purposes.—(Statutes at Large, vol. 4, p. 284.)

* * * * *

SEC. 4. That, from and after the passage of this act, the Secretary of the Treasury be, and he is hereby, authorized and empowered to regulate and fix the salaries of the respective keepers of light-houses in such manner as he shall deem just and proper: *Provided*, The whole sum allowed shall not exceed an average of four hundred dollars to each keeper.

Approved May 23, 1828.

AN ACT more effectually to provide for the punishment of certain crimes against the United States, and for other purposes.—(Statutes at Large, vol. 4, p. 115.)

SEC. 1. *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled*, That if any person or persons within any fort, dock yard, navy yard, arsenal, armory, or magazine, the site whereof is ceded to, and under the jurisdiction of, the United States, or on the site of any light-house, or other needful building belonging to the United States, the site whereof is ceded to them and under their jurisdiction as aforesaid, shall willfully and maliciously burn any dwelling-house or mansion-house, or any store, barn, stable, or other building, parcel of any dwelling or mansion-house, every person so offending, his or her counsellors, aiders, and abettors, shall be deemed guilty of felony, and shall, on conviction thereof, suffer death.

SEC. 2. *And be it further enacted*, That if any person or persons, in any of the places aforesaid, shall willfully and maliciously set fire to or burn any arsenal, armory, magazine, ropewalk, ship-house, warehouse, block-house, or barrack, or any store-house, barn, or stable, not parcel of a dwelling-house, or any other building not mentioned in the first section of this act, or any ship or vessel built or building, or begun to be built, or repairing, or any light-house or beacon, or any timber, cables, rigging, or other materials for building, repairing, or fitting out ships or vessels, or any pile of wood, boards, or other lumber, or any military, naval, or victualing stores, arms, or other munitions of war, every person so offending, his or her counsellors, aiders, and abettors, shall be deemed guilty of felony, and shall, on

conviction thereof, be punished by fine not exceeding five thousand dollars, and by imprisonment and confinement to hard labor not exceeding ten years, according to the aggravation of the offense.

* * * * *

SEC. 7. And be it further enacted, That if any person or persons, upon the high seas, or in any other of the places aforesaid, with intent to kill, rob, steal, commit a rape, or do or perpetrate any other felony, shall break or enter any ship or vessel, boat or raft; or if any person or persons shall willfully and maliciously cut, spoil, or destroy any cordage, cable, buoys, buoy rope, head-fast, or other fast fixed to any anchor or moorings belonging to any ship, vessel, boat, or raft, every person so offending, his or her counsellors, aiders, and abettors, shall be deemed guilty of a felony, and shall, on conviction thereof, be punished by fine not exceeding one thousand dollars, and by imprisonment and confinement to hard labor not exceeding five years, according to the aggravation of the offense.

* * * * *

SEC. 9. And be it further enacted, That if any person or persons shall plunder, steal, or destroy any money, goods, merchandise, or any other effects, from or belonging to any ship or vessel, or boat or raft, which shall be in distress, or which shall be wrecked, lost, stranded, or cast away upon the sea, or upon any reef, shoal, bank, or rocks of the sea, or in any other place within the admiralty and maritime jurisdiction of the United States; or if any person or persons shall willfully obstruct the escape of any person endeavoring to save his or her life from such ship or vessel, boat or raft, or the wreck thereof; or if any person or persons shall hold out or show a false light or lights, or extinguish any true light, with intention to bring any ship or vessel, boat or raft, being or sailing upon the sea, into danger or distress, or shipwreck, every person so offending, his or her counsellors, aiders, and abettors, shall be deemed guilty of felony, and shall, on conviction thereof, be punished by fine not exceeding five thousand dollars, and imprisonment and confinement to hard labor not exceeding ten years, according to the aggravation of the offense.

Approved March 3, 1825.

JOINT RESOLUTION making it the duty of the Attorney General to examine into the titles of the lands or sites for the purpose of erecting thereon armories and other public works and buildings, and for other purposes.—(Statutes at Large, vol 5, p. 468.)

1. *Resolved by the Senate and House of Representatives of the United States of America in Congress assembled,* That it shall be the duty of the Attorney General of the United States to examine into the titles of all the lands or sites which have been purchased by the United States for the purpose of erecting thereon armories, arsenals, forts, fortifications, navy yards, custom-houses, light-houses, or other public buildings of any kind whatever, and report his opinion as to the validity of the title in each case to the President of the United States.

2. *Resolved*, That it shall be the duty of all the officers of the United States having any of the title papers to the property aforesaid in their possession to furnish them forthwith to the Attorney General, to aid him in the investigation aforesaid.

3. *Resolved*, That no public money shall be expended upon any site or land hereafter to be purchased by the United States for the purposes aforesaid, until the written opinion of the Attorney General shall be had in favor of the validity of the title, and also the consent of the legislature of the State in which the land or site may be shall be given to said purchaser.

4. *Resolved*, That it shall be the duty of the district attorneys of the United States, upon the application of the Attorney General, to furnish any assistance or information in their power in relation to the titles of the public property aforesaid lying within their respective districts.

5. *Resolved*, That it shall be the duty of the secretaries of the executive departments, upon the application of the Attorney General, to procure any additional evidence of title which he may deem necessary, and which may not be in the possession of the officers of government; the expense of procuring which to be paid out of the appropriations made for the contingencies of the departments respectively.

6. *Resolved*, That it shall be the duty of the secretaries of the executive departments, respectively, under whose direction any lands for the purposes aforesaid may have been purchased, and over which the United States do not possess jurisdiction, to apply to the legislatures of the States in which the lands are situated for a cession of jurisdiction; and, in case of refusal, to report the same to Congress at the commencement of the next session thereafter.

Approved September 11, 1841.

AN ACT making appropriations for the support of the army and of the Military Academy for the year one thousand eight hundred and forty-two.—(Statutes at Large, vol. 5, p. 510.)

* * * * *

SECTION 2. *And be it further enacted*, That no officer in any branch of the public service, or any other person whose salary, pay, or emoluments, is or are fixed by law or regulations, shall receive any additional pay, extra allowance, or compensation, in any form whatever, for the disbursement of public money, or for any other service or duty whatsoever, unless the same shall be authorized by law, and the appropriation therefor explicitly set forth that it is for such additional pay, extra allowance, or compensation.

Approved August 23, 1842.

AN ACT to provide for the better organization of the treasury, and for the collection, safe-keeping, transfer, and disbursement of the public revenue.—(Statutes at Large, vol. 9, p. 59, *et seq.*)

* * * * *

SEC. 16. *And be it further enacted*, That all officers and other persons charged by this act, or any other act, with the safe-keeping, transfer, and disbursement of the public moneys, other than those connected with the Post Office Department, are hereby required to keep an accurate entry of each sum received, and of each payment or transfer; and that if any one of the said officers, or of those connected with the Post Office Department, shall convert to his own use, in any way whatever, or shall use, by way of investment in any kind of property or merchandise, or shall loan, with or without interest, or shall deposit in any bank, or shall exchange for other funds, except allowed by this act, any portion of the public moneys intrusted to him for safe-keeping, disbursement, transfer, or for any other purpose, every such act shall be deemed and adjudged to be an embezzlement of so much of the said moneys as shall be thus taken, converted, invested, used, loaned, deposited, or exchanged, which is hereby declared to be a felony; and any failure to pay over or to produce the public moneys intrusted to such person shall be held and taken to be *prima facie* evidence of such embezzlement; and if any officer charged with the disbursements of public moneys shall accept or receive, or transmit to the Treasury Department to be allowed in his favor, any receipt or voucher from a creditor of the United States, without having paid to such creditor, in such funds as the said officer may have received for disbursement, or such other funds as he may be authorized by this act to take in exchange, the full amount specified in such receipt or voucher, every such act shall be deemed to be a conversion by such officer to his own use of the amount specified in such receipt or voucher; and any officer or agent of the United States, and all persons advising or participating in such act, being convicted thereof before any court of the United States of competent jurisdiction, shall be sentenced to imprisonment for a term of not less than six months nor more than ten years, and to a fine equal to the amount of the money embezzled. And upon the trial of any indictment against any person for embezzling public money under the provisions of this act, it shall be sufficient evidence, for the purpose of showing a balance against such person, to produce a transcript from the books and proceedings of the treasury, as required in civil cases, under the provisions of the act entitled "An act to provide more effectually for the settlement of accounts between the United States and receivers of public money," approved March third, one thousand seven hundred and ninety-seven; and the provisions of this act shall be so construed as to apply to all persons charged with the safe-keeping, transfer, or disbursement of the public money, whether such persons be indicted as receivers or depositaries of the same; and the refusal of such person, whether in or out of office, to pay any draft, order, or warrant, which may be drawn upon him by the proper officer of the Treasury Department, for any public money in his hands belonging to the

United States, no matter in what capacity the same may have been received or may be held, or to transfer or disburse any such money promptly, upon the legal requirement of any authorized officer of the United States, shall be deemed and taken, upon the trial of any indictment against such person for embezzlement, as *prima facie* evidence of such embezzlement.

* * * * *

SEC. 18. *And be it further enacted*, That on the first day of January, in the year one thousand eight hundred and forty-seven, and thereafter, all duties, taxes, sales of public lands, debts, and sums of money accruing or becoming due to the United States, and also all sums due for postages or otherwise to the General Post Office Department, shall be paid in gold and silver coin only, or in treasury notes issued under the authority of the United States: *Provided*, That the Secretary of the Treasury shall publish, monthly, in two newspapers at the city of Washington, the amount of specie at the several places of deposit, the amount of treasury notes or drafts issued, and the amount outstanding on the last day of each month.

SEC. 19. *And be it further enacted*, That on the first day of April, one thousand eight hundred and forty-seven, and thereafter, every officer or agent engaged in making disbursements on account of the United States, or of the General Post Office, shall make all payments in gold and silver coin, or in treasury notes, if the creditor agree to receive said notes in payment; and any receiving or disbursing officer or agent who shall neglect, evade, or violate the provisions of this and the last preceding section of this act, shall, by the Secretary of the Treasury, be immediately reported to the President of the United States, with the facts of such neglect, evasion, or violation; and also to Congress, if in session, and if not in session, at the commencement of the session next after the violation takes place.

SEC. 20. *And be it further enacted*, That no exchange of funds shall be made by any disbursing officers or agents of the government, of any grade or denomination whatsoever, or connected with any branch of the public service, other than an exchange for gold and silver; and every such disbursing officer, when the means for his disbursements are furnished to him in gold and silver, shall make his payments in the money so furnished; or when those means are furnished to him in drafts, shall cause those drafts to be presented at their place of payment and properly paid according to the law, and shall make his payments in the money so received for the drafts furnished, unless, in either case, he can exchange the means in his hands for gold and silver at par. And it shall be and is hereby made the duty of the head of the proper department immediately to suspend from duty any disbursing officer who shall violate the provisions of this section, and forthwith to report the name of the officer or agent to the President, with the fact of the violation, and all the circumstances accompanying the same, and within the knowledge of the said secretary, to the end that such officer or agent may be promptly removed from office, or restored to his trust and the performance of his duties, as to the President may seem just and proper: *Provided*,

However, That those disbursing officers having at present credits in the banks shall, until the first day of January next, be allowed to check on the same, allowing the public creditors to receive their pay from the banks either in specie or bank notes.

SEC. 21. *And be it further enacted,* That it shall be the duty of the Secretary of the Treasury to issue and publish regulations to enforce the speedy presentation of all government drafts for payment at the place where payable, and to prescribe the time, according to the different distances of the depositaries from the seat of government, within which all drafts upon them, respectively, shall be presented for payment; and, in default of such presentation, to direct any other mode and place of payment which he may deem proper; but in all these regulations and directions, it shall be the duty of the Secretary of the Treasury to guard, as far as may be, against those drafts being used or thrown into circulation as a paper currency or medium of exchange. And no officer of the United States shall, either directly or indirectly, sell or dispose to any person or persons, or corporations, whatsoever, for a premium, any treasury note, draft, warrant, or other public security, not his private property, or sell or dispose of the avails or proceeds of such note, draft, warrant, or security, in his hands for disbursement, without making return of such premium, and accounting therefor by charging the same in his accounts to the credit of the United States; and any officer violating this section shall be forthwith dismissed from office.

* * * * *

Approved August 6, 1846.

AN ACT making appropriations for light-houses, light-boats, buoys, &c., and providing for the erection and establishment of the same, and for other purposes.—(Statutes at Large, vol. 9, page 504.)

* * * * *

SEC. 6. *And be it further enacted,* That hereafter all buoys along the coast, or in bays, harbors, sounds, or channels, shall be colored and numbered, so that in passing up the coast or sound, or entering the bay, harbor, or channel, red buoys with even numbers shall be passed on the starboard hand; black buoys with uneven numbers on the port hand; and buoys with red and black stripes on either hand. Buoys in channel-ways to be colored with alternate white and black perpendicular stripes.

SEC. 7. *And be it further enacted,* That there shall be allowed collectors, when acting as superintendents of light-houses, beacons, light-boats, and buoys, the same rate of commission on the disbursements of the aforesaid appropriations as were allowed and paid for the year ending fourth of March, 1849: *Provided*, That no collector shall receive for his services, as superintendent aforesaid, over the sum of four hundred dollars per annum: *And provided, further*, That the Secretary of the Treasury shall assign to the collectors the superintendence of such light-houses, beacons, light-boats, and buoys as he may judge best and most convenient for the public interest.

Approved September 28, 1850.

AN ACT making appropriations for the civil and diplomatic expenses of government for the year ending the thirtieth of June, eighteen hundred and fifty-one, and for other purposes.—(Statutes at Large, vol. 9, page 533.)

* * * * *

Provided, That collectors, whose compensation exceeds twenty-five hundred dollars, shall receive no compensation as superintendents of lights or disbursing agents.

Approved September 30, 1850.

Same Act.—(Statutes at Large, vol. 9, pages 542, 543.)

* * * * *

Provided, however, That hereafter the proper accounting officers of the treasury, or other pay officers of the United States, shall in no case allow pay to any one individual the salaries of two different offices on account of having performed the duties thereof at the same time.

Approved September 30, 1850.

AN ACT making appropriations for light-houses, light-boats, buoys, &c., and providing for the erection and establishment of the same, and for other purposes.—(Statutes at Large, vol. 9, p. 629.)

* * * * *

SEC. 2. *And be it further enacted*, That if such person as the Secretary of the Treasury shall designate shall report, in any of the cases herein provided for, that preliminary surveys are necessary to determine the site of a proposed light-house or light-boat, beacon or buoy, or to ascertain more fully what the public exigency demands, the Secretary of the Treasury shall thereupon direct the superintendent of the survey of the coast of the United States to perform such duty on the seaboard, and the colonel of the corps of topographical engineers to perform such duty on the northwestern lakes.

SEC. 3. *And be it further enacted*, That the officers so directed shall forthwith enter upon the discharge of the duty, and after fully ascertaining the facts, shall report, first, whether the proposed facility to navigation is the most suitable for the exigency which exists; and, second, where it should be placed if the interests of commerce demand it; third, if the thing proposed be not the most suitable, whether it is expedient to make any other kind of improvement; fourth, whether the proposed light has any connection with other lights, and, if so, whether it cannot be so located as to subserve both the general and the local wants of trade and navigation; and, fifth, whether there be any, and if any, what other facts of importance touching the subject.

* * * * *

SEC. 7. *And be it further enacted*, That hereafter in all new light-houses, in all light-houses requiring new lighting apparatus, and in all light-houses as yet unsupplied with illuminating apparatus, the lens or Fresnel system shall be adopted, if, in the opinion of the

Secretary of the Treasury, the public interest will be subserved thereby.

* * * * *

SEC. 9. *And be it further enacted*, That the President be, and he is hereby, required to cause to be detailed from the engineer corps of the army, from time to time, such officers as may be necessary to superintend the construction and renovating light-houses.

Approved March 3, 1851.

AN ACT making appropriations for light-houses, light-boats, buoys, &c., and providing for the erection and establishment of the same, and for other purposes.—(Statutes at Large, vol. 10, pages 119, 120, and 121.)

* * * * *

SEC. 8. *And be it further enacted*, That the President be, and he is hereby, authorized and required to appoint, immediately after the passage of this act, two officers of the navy of high rank, one officer of the corps of engineers of the army, one officer of the corps of topographical engineers of the army, and two civilians of high scientific attainments, whose services may be at the disposal of the President, and an officer of the navy and an officer of engineers of the army as secretaries, who shall constitute the Light-house Board of the United States, and shall have power to adopt such rules and regulations for the government of their meetings as they may judge expedient; and the board so constituted shall be attached to the office of the Secretary of the Treasury, and, under his superintendence, shall discharge all the administrative duties of said office relating to the construction, illumination, inspection, and superintendence of light-houses, light-vessels, beacons, buoys, sea-marks, and their appendages, and embracing the security of foundations of works already existing, procuring illuminating and other apparatus, supplies and materials of all kinds for building, and for rebuilding when necessary, and keeping in good repair the light-houses, light-vessels, beacons, and buoys of the United States.

SEC. 9. *And be it further enacted*, That the Secretary of the Treasury shall be ex-officio president of the Light-house Board of the United States; and the said board at their first meeting shall proceed to ballot for one of their members as chairman, and the member who shall receive the majority of ballots of the whole board shall be declared by the president to be chairman of the Light-house Board, who shall, in the absence of the president of the board, preside over their meetings, and do and perform such acts as may be required by the rules of the board.

SEC. 10. *And be it further enacted*, That the Light-house Board shall meet four times in each year for the transaction of general and special business, each meeting to commence on the first Monday in March, June, September, and December; and that the Secretary of the Treasury is hereby authorized to convene the Light-house Board whenever, in his judgment, the exigencies of the service may require it.

SEC. 11. *And be it further enacted*, That the Secretary of the Treasury be, and he is hereby, required to cause such clerks as are now

employed on light-house duties in the Treasury Department to be transferred to the Light-house Board without any change of salary, and to provide the necessary accommodations for the secretaries and clerks, for the preservation of the archives, models, drawings, &c., &c., and for holding the meetings of the board; and that he cause to be transferred to the proper officers of the Light-house Board all the archives, books, documents, drawings, models, returns, apparatus, &c., &c., belonging to the light-house establishment of the United States.

SEC. 12. *And be it further enacted*, That it shall be the duty of the Light-house Board, immediately after being organized, to arrange the Atlantic, Gulf, Pacific, and lake coasts of the United States into light-house districts, not exceeding twelve in number; and the President is hereby authorized and required to direct that an officer of the army or navy may be assigned to each district as a light-house inspector, subject to and under the orders of the Light-house Board, who shall receive for such service the same pay and emoluments that he would be entitled to by law for the performance of duty in the regular line of his profession, and no other, except the legal allowance per mile when traveling under orders connected with his duties.

SEC. 13. *And be it further enacted*, That the said Light-house Board, by and with the consent and approbation of the Secretary of the Treasury, be authorized and required to cause to be prepared and distributed among the light-keepers, inspectors, and others employed in the light-house establishment, such rules, regulations, and instructions as shall be necessary for securing an efficient, uniform, and economical system of administering the light-house establishment of the United States, and to secure responsibility from them; which rules, regulations, and instructions, when approved, shall be respected and obeyed until altered and annulled by the same authority.

SEC. 14. *And be it further enacted*, That it shall be the duty of the Light-house Board to cause to be prepared, by the engineer secretary of the board, or by such officer of engineers of the army as may be detailed for that service, all plans, drawings, specifications, and estimates of cost of all illuminating and other apparatus, and of construction and of repair of towers, buildings, &c., connected with the light-house establishment; and no bid or contract shall be accepted or entered into except upon the decision of the board, at a regular or special meeting, and through their properly authorized officers.

SEC. 15. *And be it further enacted*, That hereafter all materials for the construction and repair of light-houses, light-vessels, beacons, buoys, &c., &c., shall be procured by public contracts, under such regulations as the board may, from time to time, adopt, subject to the approval of the Secretary of the Treasury; and all works of construction, renovation, and repair shall be made by the orders of the board, under the immediate superintendence of their engineer secretary, or of such engineer of the army as may be detailed for that purpose.

SEC. 16. *And be it further enacted*, That it shall be the duty of the Light-house board to furnish, upon the requisition of the Secretary

of the Treasury, all the estimates of expense which the several branches of the light-house service may require, and such other information as may be required to be laid before Congress at the commencement of each session.

SEC. 17. *And be it further enacted*, That all acts and parts of acts inconsistent with the provisions of this act are hereby repealed, and all acts and parts of acts relating to the light-house establishment of the United States, not inconsistent with the provisions of this act, and necessary to enable the Light-house Board, under the superintendence of the Secretary of the Treasury, to perform all duties relating to the management, construction, illumination, inspection, and superintendence of light-houses, light-vessels, beacons, buoys, sea-marks, and their accessories, including the procuring and testing of apparatus, supplies, and materials of all kinds for illuminating, building, and rebuilding when necessary, maintaining and keeping in good repair the light-houses, light-vessels, beacons, buoys, and sea-marks of the United States, and the second and third sections of the act making appropriations for light-houses, light-vessels, buoys, &c., pproved March third, eighteen hundred and fifty-one, are hereby declared to be in full force, and shall have the same effect as though his act had not passed: *Provided*, That no additional salary shall be allowed to any civil, military, or naval officer who shall be employed on the Light-house Board, or who may be in any manner attached to the light-house service of the United States under this act: *And provided, further*, That it shall not be lawful for any member of the Light-house Board, inspector, light-keeper, or other person in any manner connected with the light-house service, to be engaged, either directly or indirectly, in any contract for labor, materials, or supplies for the light-house service, nor to possess, either as principal or agent, any pecuniary interest in any patent, plan, or mode of construction or illumination, or in any article of supply for the light-house service of the United States.

Approved August 31, 1852.

AN ACT to amend an act entitled "An act to provide for the better organization of the treasury, and for the collection, safe-keeping, transfer, and disbursement of the public revenue."—(Statutes at Large, vol 11, p. 249.)

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the act to provide for the better organization of the treasury, and for the collection, safe-keeping, transfer, and disbursement of the public revenue, approved August six, eighteen hundred and forty-six, be, and the same is hereby, so amended that each and every disbursing officer or agent of the United States, having any money of the United States intrusted to him for disbursement, shall be, and he is hereby, required to deposit the same with the Treasurer of the United States, or with some one of the assistant treasurers or public depositaries, and draw for the same only in favor of the persons to whom payment is to be made, in

pursuance of law and instructions, except when payments are to be made in sums under twenty dollars, in which cases such disbursing agent may check in his own name, stating that it is to pay small claims.

SEC. 2. *And be it further enacted*, That the Treasurer of the United States, assistant treasurers, and public depositaries, shall safely keep all moneys deposited by any disbursing officer or disbursing agent of the United States, as well as any moneys deposited by any receiver, collector, or other person, which shall be the moneys of, or due or owing to, the United States; and for a failure so to do, shall be held guilty of the crime of embezzlement of said moneys, and subject to the punishment provided for embezzlements in the act to which this is an amendment.

SEC. 3. *And be it further enacted*, That it shall be the duty of each and every person who shall have moneys of the United States in his hands or possession to pay the same to the Treasurer, the assistant treasurer, or public depositary of the United States, and take his receipt for the same in duplicate, and forward one of them forthwith to the Secretary of the Treasury; and for a failure to make such deposit when required by the Secretary of the Treasury, or any other department, or the accounting officers of the treasury, the person so failing shall be held guilty of the crime of embezzlement, and subject to the punishment for that offense provided in the act to which this is an amendment.

Approved March 3, 1857.

INDEX

TO

LIGHT-HOUSE ESTABLISHMENT RULES, REGULATIONS, AND INSTRUCTIONS.

A.	Article.	Page.
Absence, action of Board in Chairman's		8
action of Board in Secretaries'		9
light-vessel keepers' and crews' leaves of.....	LXXXVI.	27
abuse of leaves of.....	LXXXVII.	27
Accounts, estimates, &c., preparing by Secretaries of forms for.....		8
examining by Secretaries of.....	CLXXXVIII.	9, 41
rendering, &c., of.....	CLXXXIX, CXC, CXCI.	41
failure to render.....	CXCII.	42
objects in examining, rectification, &c., of.....	CXCIII.	42
keeping, according to Department rules and regulations, of..	CXCIV.	42
Act of Congress relative to bids, contracts, &c.....		4
duties of inspectors.....	I.	12
surveys preliminary to establishing aids to navigation	XXXII.	16
purchase of land.....	XXXV.	17
validity of title, &c., of land to be purchased.....	XXXVI.	17
payment for purchased land.....	XXXVIII.	18
superintending by engineers of works of construction	XL.	18
distinctions of buoys.....	XCVI.	28
debarring members of Congress from share in contracts..	CXLI.	34
officers, &c., of Light-house Establishment from interest in contracts, patents, &c.....	CXLVII.	35
charging superintendents with certain disbursements.	CLXXXII.	40
relative to conversion to private uses of public money....	CCIV.	43
keeping of public funds in public depositories.	CCVIII.	44
extra pay or allowance.....	CCX.	44
Additional rules, &c., preparing by Secretaries of.....		8
Administrative details, arrangement by Board of		4
Advertising for rations and fuel, and for buoy service.....	CXXVII, CXXVIII,	
	CXXIX, CXXX.	32
Advance payments, making of	CXLVIII.	35
Aids to navigation, charging inspectors with care of.....	I.	12
repairing by inspectors of damage to.....	IX.	13
taking special care of important.....	XVII.	14
unauthorized changes in	XXXI, XLVII, CXIV.	16, 20, 30
surveys preliminary to establishment of..	XXXII, XXXVII.	16, 17

	Article.	Page.
Allowance, light-keepers' extra pay and.....	LXIII.	23
conforming to lists of.....	CL.	35
forbidding of extra pay or.....	CCX.	44
Annual returns, transmission by inspectors of.....	VIII.	13
transmission by light-keepers of.....	XI.	13
reports of inspectors and engineers.....	XXVIII.	16
estimates for Congress, preparing by Board of.....		4
Anchors, &c., reporting by inspectors of light-vessels' deficiencies in.....	LXXIX.	26
testing by inspectors of light-vessels'.....	LXXX.	26
demanding of recovered.....	CCXI.	45
Apparatus, adoption of Fresnel illuminating.....		4
caring for by inspectors of.....	XVI.	14
Applications for erection of new light-houses, examining by Board of.....		5
Appointments, ceasing of light-keepers'.....	CCXII.	45
Appropriations, charging expenditures to proper.....	CXCIV.	42
Army and navy officers, detailing for light-house duty of.....		4, 5
Authority, traveling on light-house service only by.....	VI, XLIII.	12, 19
making of expenditures only by.....	IX, CXCIV.	13, 42
employing persons in light-house service only by.....	XXIX.	16
incurring liabilities only by.....	CXCIV.	42

B.

Beacons, charging Naval Secretary with details relative to.....	9	
unauthorized changes in.....	XXXI, XLVII, CXIV.	16, 20, 30
transmitting information relative to sites for.....	XXXIII, XXXIV.	16, 17
purchase of land for sites for.....	XXXV.	17
validity of title of sites for.....	XXXVI.	17
surveying of sites for.....	XXXVII.	17
conveying by deed of sites for.....	XXXVIII.	17
perfecting of titles to sites for.....	XXXIX.	17
payment for purchased sites for.....	XXXVIII.	17
engineers' reports, &c., prior to construction of.....	XXXIX.	18
preserving distinctions of.....	XLVII.	19
lightning conductors for.....	LX.	22
construction and distinctions of day.....	XCVII.	29
establishing by bearings, &c., of positions of.....	CXVIII.	31
transmitting to the Board charts marked with positions of.....	CXXII.	31
constructing by contracts, tenders, day's labor, &c., of.....	CXXXIV.	33
inspecting, &c., before receiving of newly constructed.....	CXXXV.	33
Bids, act relative to.....	4	
advertising for, opening, &c., of	CXXVII, CXXVIII, CXXIX, CXXX,	
	CXLII.	32, 34
for keeping buoys	CXXIII, CXXVII.	31, 32
constructing of works and procuring of materials upon	CXXXIV.	33
rejecting of unreasonable.....	CXXXIX.	33
opening, recording, transmitting to Board, &c., of.....	CXLII.	34
Bills, time of paying of.....	CLV.	36
settlement of, when dated anterior to current quarter.....	CXCIX.	42
Blanks and forms, furnishing by the Board of all.....	CXCIV.	42
Board, meetings of the		3, 5
resolution into executive committee of the		5
Chairman of the		3, 5, 8
notices of meetings of the		5
quorums of the		5

	Article.	Page.
Board , making of communications to Congress and the Departments by the.....	5	5
application for detail of officers for light-house duty by the	5	5
regulation, &c., of inspections by the.....	5	5
examining of memorials, &c., for new light-houses by the.....	5	5
determining by the, when surveys preliminary to erection of new light-houses are required.....	5	5
routine of establishing light-houses to be observed by the.....	5	5
composition, duties, &c., of committees of the.....	6, 7	
Secretaries of the	8, 9, 10	
action of, in absence of Chairman.....	8	8
action of, in absence of Secretaries.....	8	8
issuing of notices to mariners by the	X	13
transmitting of light-keepers' returns to the	XII	13
reporting light-keepers neglect of duty to the.....	XIII, XIV	14
authorization of changes in aids to navigation by the.....	XXI, XLVII, CXIV	16, 20, 30
prescribing of plans, &c., of light-vessels by the.....	LXV	24
prescribing character of anchors, chains, shackles, &c., by the	LXVII	24
transmitting description, notice of placing, &c., of new light-vessels by the	LXXX	25
transmitting data for notice to mariners of new light-vessels to the.....	LXXI	25
transmitting report of position, bearings, &c., of newly stationed light-vessels to the.....	LXXIV	25
regulating of number and rates of pay of mates, crews, &c., of light-vessels by the.....	LXXV, LXXVI	25
reporting infractions of duty by light-vessel keepers, mates, &c., to the	LXXXII	26
reporting causes for light-vessels abandonment of stations to the	LXXXIII	26
reporting abuse of furloughs to the.....	LXXXVII	27
transmitting abstracts of light-vessel log-books to the	LXXXVIII	27
reporting incorrectness in keeping light-vessel log-books to the	LXXXIX	27
constructing buoys according to directions of the	XCV	28
making sinkers, shackles, &c., according to plans, &c., of the	CI	29
placing buoys in new channels, or to mark obstructions, only by authority of the	CIX	30
authorization of duplicate and spare buoys by the	CXVI	31
reporting changes in buoyage to the.....	CXIX	31
transmitting corrected buoy lists to the	CXXI	31
transmitting charts marked with positions of buoys, beacons, &c., to the	CXXII	31
authorization of contracts for buoy service by the	CXXIII	31
conforming of contracts to directions of the	CXXXII	33
reporting of required changes in workmanship, materials, supplies, &c., to the	CXXXVI	33
transmitting copy of bids, &c., to the	CXLII	34
designation of list of allowances by the.....	CL	35
authorizing of transfers of public property by the.....	CLXI, CLXII	37
sending of quarterly estimates for funds to the.....	CLXXXIII	40
requiring specifications of objects of estimates by the.....	CLXXXIV	40
rendering of accounts to and examining, &c., thereof, by the.....	CLXXXIX, CXCI	
submitting of all cases of liability or expenditure to the.....	CXCIII	41
paying of salvage only by authority of the	CCXI	42
		44

	Article.	Page.
Boats, character of light-house.....	LXII.	23
color of light-vessel.....	LXVIII.	24
uses of light-vessel	XCIV.	28
deducting from keepers' salaries cost of loss of or damage to.....	CLXXX.	40
Buoy lists, preparing by Secretaries of.....		8
correcting by inspectors of.....	III.	12
Buoys, charging of Naval Secretary with details relative to.....		9
unauthorized changes in.....	XXXI, XLVII.	16, 20
preserving distinctions of.....	XLVII.	19
prescribing materials, dimensions, &c., of.....	XCV.	28
distinctions of.....	XCVI, CXIII.	28, 30
paints for coloring and numbering.....	XCVIII.	29
mode of attaching, weight, &c., of ballast balls and sinkers for.....	XCIX, C.	29
making according to Board's plans, &c., sinkers and iron-work of.....	CI.	29
length and size of chains for.....	CII.	29
giving special attention to examining attachments of.....	CIII.	29
uses of the several classes of	CIV, CV, CVI, CVII, CVIII, CIX, CX.	29, 30
substituting spar buoys in winter for nun and can.....	CVII.	30
marking different channels in same harbor by different classes of	CXI.	30
marking single channels with nun and can.....	CXI.	30
testing of	CXII.	30
instructions for placing	CXIII.	30
unauthorized changes in	CXIV.	30
marking Southern coast with nun and can.....	CXV.	31
authorization of duplicate and spare	CXVI.	31
semi-annual changing, cleaning, &c., of	CXVII.	31
establishing by bearings, &c., of positions of	CXVIII.	31
reporting changes in	CXIX.	31
action of inspector relative to breaking adrift of	CXX.	31
keeping and correcting by inspector of lists of	CXXI.	31
transmitting to the Board charts marked with positions of	CXXII.	31
keeping by contract of	CXXIII, CXXIV.	31
duty of tenders of	CXXV, CXXVI.	32
advertising for service of	CXXVII.	32
Business, conducting by Naval Secretary of office.....		9

C.

Chains, fastening of, on light-vessels.....	LXVII.	24
reporting deficiencies of light-vessels'	LXXIX.	26
testing by inspectors of light-vessels'	LXXX.	26
Chairman of Light-house Board.....		3, 5
ex-officio member of all committees		6
duties of.....		8
action of Board in absence of		8
Chief Clerk, acting of, as Secretary		8
Clerks, arranging by Secretaries of duties of		9
Coast Survey, making of preliminary surveys by Superintendent of	XXXII.	16
Coal tar, painting iron-work, anchors, &c., of light-vessels with.....	LXVI.	24
painting buoys with.....	XCVIII.	29
Cold chisels and punches not allowed on light-vessels.....	LXVII.	24
Color, &c., of light-vessels	LXVI.	24

Article.	Page.
Color, &c., of boats of light-vessels	LXVIII.
of buoys	XCVI, XCVIII.
Committees, composition, duties, &c., of Board .....	.....
Communications, making of, to Congress and Departments.....	.....
endorsing and addressing of.....	CCXVIII.
acknowledging of.....	CCXIX.
Congress, communications to .....	.....
debarring members of, from interest in contracts.....	CXLI.
Construction, superintending by engineers of works of.....	.....
responsibility of engineers for works of.....	XL.
Construction of light-houses, superintending of, by engineer officers of the army.....	.....
preparing by engineer officers of the army of plans, estimates, &c., for the.....	XXXIX.
Contractor, furnishing rations or fuel for several districts by one.....	CXXX.
restricting to one kind of material or work each.....	CXXXIII.
Contractors, receiving of and receipting for deliveries from.....	LXXVII.
keeping of buoys by	CXXIV.
making payments to and holding responsible of.....	CXXXVIII.
requiring guarantees of	CXL.
giving of security by	CXLI.
producing receipts of delivery by, before receiving payment.....	CXLV.
Contract, keeping of buoys by	CXXXII, CXXXIV.
securing supplies or service for several districts by one	CXXX.
supplying materials and executing work by.....	CXXXIII.
constructing light-houses, beacons, &c., by.....	CXXXIV.
procuring materials for works by	CXXXIV.
inspection by engineer of work done by	CXXXV.
Contracts, act relative to .....	.....
making or annulling of, only at full quorum of the Board	5
signing by Chairman of	8
drawing up in form and for fiscal year only of	CXXXI.
making in writing, &c., of	CXXXII.
changes in workmanship, materials, supplies, &c., necessitating entering into new.....	CXXXVI.
guarding against claims for extra work and materials in drawing up of	CXXXVII.
transferring of	CXXXVIII.
making with lowest bidder of	CXXXIX.
drawing in quadruplicate, &c., and disposing of	CXL.
members of Congress being interested in	CXLI.
persons in light-house service being parties in	CXLVI, CXLVII.
advance payments on	CXLVIII.
procuring supplies or service by open	CLVI.
disbursing payments or salaries on	CXCIX.
Conveying by deed of light-house sites .....	.....
Correspondence, conducting by Chairman of .....	.....
conducting by Secretaries of	9
Crews, number and pay of	LXXXV, LXXXVI.
manning relief-vessels with light-vessel keepers and	LXXXI.
infractions of duty by members of light-vessel	LXXXII.
allowing furloughs to light-vessel	LXXXVI.
abuse of furloughs by	LXXXVII.

D.	Article.	Page.
Damages, repairing by inspectors of	IX.	13
Day-beacons, construction and distinctions of	XCVII.	29
Day's labor, manner of estimating	CCV.	44
Death, duties of superintendents in cases of light-keepers'	XXV.	15
Deeds, conveying of light-house sites by	XXXVII.	17
Departments, communications to		5
Designs, &c., preparing of, prior to works of construction	XXXIX.	18
Digests of reports, submitting by Secretaries to Board of		9
Disbursing officers, transmitting of estimates in duplicate by	CLXXXV.	41
not allowing large sums to be held by	CLXXXVII.	41
failure to render accounts by	CXCII.	42
rectification of accounts by	CXCIII.	42
purchasing of blanks and forms by	CXCIV.	42
paying of bills of date anterior to current quarter by	CXCIX.	42
authority of, for paying vouchers	CCI.	43
dedication solely to public uses of public money by	CCIV.	43
using only of public depositories by	CCVIII.	44
Disbursements, governing by Department rules and regulations of	CXCIV.	42
Districts, number of light-house		4
detailing army and navy officers as inspectors and engineers of		4
description of light-house		10, 11
Draughtsmen, &c., arranging by Secretaries of duties of		9
Drunkards, disqualification as light-keepers of	XV, XXIII.	14, 15
visiting of light-stations by	CCXIII.	45
Duties of Light-house Board		3, 4
Engineer Secretary's		4, 9, 10
Naval Secretary's		9
Board committees'		6, 7
arranging by Secretaries of clerks'		9
inspectors'		I.
engineers performing inspectors'	VII.	12
instructing by inspectors and superintendents of light-keepers in their	XVI,	13
XXVI.		14, 15
of engineers relative to light-house sites	XXXIII, XXXIV.	16, 17
Duty, reporting by inspectors and superintendents of light-keepers' neglect of		
XIII, XIV, XXVII.		14, 15
authority for employing persons upon light-house	XXIX.	16
reporting of light-vessel keepers and discharge of seamen, &c., for infractions of	LXXXII.	26
E.		
Economy, managing light-house service with rigid	CCIX.	44
Embezzlement of public property	LXXVIII, CLXIV.	26, 37
conversion of public money to private uses deemed	CCIV.	43
Employment, paying of light-keepers only for actual	XXVI.	15
Engineering committee, duties of		7
Engineer Corps, making of preliminary surveys by Colonel of	XXXII.	16
Engineer Secretary, duties of		4, 9, 10
Engineers, detailing of army officers as		4, 5
examining, &c., by Engineer Secretary of reports of		10

	Article.	Page.
Engineers , reporting of all information relative to light-house service by.....	V.	12
performing of inspectors' duties by.....	VII.	13
duty of, toward drunken light-keepers.....	XV.	14
instructing of light-keepers in their duty by.....	XXVI.	15
transmitting annual reports of operations by.....	XXVIII.	16
authority for employing persons in light-house service by.....	XXIX.	16
determining mechanics' and laborers' working time by.....	XXX.	16
making changes in aids to navigation by.....	XXXI.	16
transmitting information relative to light-house sites by.....	XXXIII.	
	XXXIV.	16, 17
making reports preliminary to works of construction by.....	XXXIX.	18
superintending of works of construction by.....	XL.	18
inspection of materials and supplies by	XLI.	18
action, &c., of, prior to building of wharves, purchase of vessels, &c., by.....	XLII.	18
visiting works of construction by.....	XLIII.	18
traveling on light-house service by.....	XLIII.	19
responsibility of, for works of construction.....	XLIV.	19
transmitting details for notices to mariners by.....	XLV., XLVI.	19
preserving distinctions of lights, &c., by.....	XLVII.	19
reporting unauthorized changes in distinctions of light-stations by, XLVII.	20	
inspection by, of work done upon contract	CXXXV.	33
making purchases, &c., from persons in the light-house service by, CXLVI.	35	
responsibility for public property of	CXLIX.	35
action of, upon relief from duty.....	CLXXXVIII.	39
transmitting of quarterly estimates for funds by.....	CLXXXIII.	40
specifying objects of estimates by.....	CLXXXIV.	40
action of, relative to salvage, recovered moorings, &c.	CCXI.	44
accommodation at light-stations of	CCXV.	45
furnishing copies of rules and regulations to.....	CCXXI.	46
Estimates , plans, &c., preparing for engineering committee of	4, 9	
furnishing Congress with annual	4	
accounts, &c., preparing by Secretaries of forms for.....	8	
charging Naval Secretary with details relative to general	9	
accounts, &c., examining by Secretaries of	CLXXXVIII., CXCIII.	9, 41, 42
preparing of, prior to works of construction.....	XXXIX.	18
quarterly.....	CLXXXIII., CLXXXIV., CLXXXV.	40, 41
for incidental expenses	CLXXXVI.	41
specifying in detail the objects of.....	CLXXXIV.	40
Examination of memorials, &c., for erection of new light-houses.....	5	
accounts, estimates, &c.....	9	
Executive committee , resolution of Board into	5	
Expenditures , charging Naval Secretary with details relative to	9	
authority for making.....	IX.	13
charging to proper appropriations of.....	CXCIV.	42
obtaining authority for making	CXCVIII.	42
observing strict economy in making.....	CCIX.	44
Expenses , furnishing Congress with annual estimates of.....	4	
charging Naval Secretary with details relative to current.....	9	
Extra supplies , keeping on hand by inspectors of.....	CLIII.	36
furnishing and taking receipts for.....	CLIX.	37

	Article.	Page.
	F.	
Forms of estimates, accounts, &c., preparing by Secretaries of	8	
and blanks, furnishing by the Board of all	CXCIV.	42
Fraud of public property	CLXIV.	37
Fresnel illuminating apparatus adopted		4
Fuel, receiving and receipting for	LXXVII.	25
advertising for bids for	CXXVII, CXXVIII, CXXIX, CXXX.	32
conforming to terms of contract of quality, quantity, &c., of	CXLIV.	34
Furloughs, light-vessel keepers' and crews'	LXXXVI, LXXXVII.	27
	G.	
General estimates, charging of Naval Secretary with details relative to		9
	I.	
Illuminating apparatus, adoption of Fresnel	4	
inspectors caring for	XVI.	14
materials, charging Naval Secretary with details relative to		9
Information, unauthorized publishing of official	CCXVII.	46
seeking of, from persons interested in navigation	CCXX.	46
Inspections, regulating by Board of		5
charging Naval Secretary with details relative to		9
of materials and supplies by engineers	XLI.	18
objects to be observed by inspectors in making	LVI.	21
Inspectors, detailing of army or navy officers as		4, 5
examining by Engineer Secretary of reports of		10
general duties of	I.	12
quarterly inspections of lights by	II.	12
quarterly reports condition, &c., of light-houses by	III.	12
correcting of buoy lists by	III.	12
order of inspection to be observed by	III.	12
making of special reports by	IV.	12
making of quarterly reports of services by	IV.	12
reporting of special and general information by	V.	12
traveling on light-house service by	VI.	12
engineers performing duty of	VII.	13
making of annual returns by	VIII.	13
repairing damages to lights, &c., by	IX.	13
obtaining authority for expenditures by	IX.	13
issuing of notices to mariners by	X.	13
transmitting by light-keepers of returns to	XI.	13
examining, &c., of light-keepers' returns by	XII.	13
reporting light-keepers' neglect of duty by	XIII, XIV.	14
duty of, toward drunken light-keepers	XV.	14
caring for illuminating apparatus by	XVI.	14
instructing of light-keepers in their duties by	XVI, XXVI,	14, 15
taking special care of important lights, &c., by	XVII.	14
making of annual reports of operations by	XXVIII.	14
obtaining authority for employing persons in light-house service by		
XXIX.	16	
determining of mechanics' and laborers' working time by	XXX.	16
making changes in aids to navigation by	XXXI.	16

	Article.	Page.
Inspectors, transmitting information relative to light-house sites by	XXXIV.	17
reporting unauthorized changes in distinctions of light-stations by,	XLVII.	20
objects to be observed in inspections by	LVI., XCIII.	21, 28
transmitting description, notice of placing, &c., of new light-vessels by	LXX.	25
transmitting of data for notices to mariners of new light-vessels by,	LXXI.	25
stationing, mooring, &c., of new light-vessels by	LXXXII., LXXXIII.	25
transmitting to Board report of position, bearings, &c., of newly stationed light-vessels by	LXXXIV.	25
reporting of repairs to light-vessels, deficiencies of anchors, chains, &c., by	LXXXIX.	26
testing anchors, chains, cables, shackles, &c., of light-vessels by,	LXXX.	26
sending of relief-vessels to abandoned stations by	LXXXI.	26
discharging for infraction of duty of mates, seamen, &c., of light-vessels by	LXXXII.	26
investigating of light-vessels' abandonment of stations by	LXXXIII.	26
issuing by, of notices to mariners of light-vessels' abandonment of and return to their stations	LXXXIV.	26
keeping relief light-vessel ready for service by	LXXXV.	27
allowing furloughs to light-vessel keepers and crews by	LXXXVI.	27
action of, relative to abuse of furloughs	LXXXVII.	27
action of, relative to log-books of light-vessels and tenders,	LXXXVIII., LXXXIX.	27
allowing strangers, &c., to live or remain on light-vessels by	XCI.	27
furnishing light-vessel keepers with blank books and forms, instructions, &c., by	XCII.	27
giving special attention to examining attachments of buoys by	CIII.	29
allowing duplicate and spare buoys upon application of	CXVI.	31
establishing positions of buoys, beacons, &c., by	CXVIII.	31
reporting changes in buoyage by	CXIX.	31
duty of, in relation to breaking adrift of buoys	CXX.	31
keeping and correcting of buoy lists by	CXXI.	31
transmitting to the Board charts marked with positions of buoys, beacons, &c., by	CXXII.	31
duty of, relative to contracts for buoy service	CXXIII., CXXIV.	31, 32
directing of keeping in order of buoys by	CXXV.	32
examining complaints of rations and fuel by	CXLIV.	34
making purchases, &c., from persons in light-house service by	CXLVI.	35
responsibility for public property of	CXLIX.	35
keeping on hand of extra supplies by	CLI.	36
furnishing of and taking receipts for extra supplies by	CLIX.	37
action of, in cases of excessive expenditure of supplies	CLX.	37
action of, in cases of fraud or embezzlement of public property	CLXIV.	37
action of, upon relief from duty	CLXXVIII.	39
transmitting quarterly estimates for funds by	CLXXXIII.	40
specifying objects of estimates by	CLXXXIV.	40
action of, relative to salvage, recovered moorings, &c.	CCXI.	44
accommodation at light-stations of	CCXV.	45
furnishing copies of rules and regulations to	CCXXI.	46

	Article.	Page.
Intemperance, disqualification of persons as light-keepers for.....	XV, XXIII.	14, 15
prohibiting from light-stations of persons addicted to.....	CCXIII.	45
Instructions, &c., signing by Chairman of .....	.....	8
Invalids, disqualification as light-keepers of.....	XXIII.	15
Inventories, making of, at light-stations upon changes of keepers...	CLXXVIII.	39
J.		
Journal, keeping by Naval Secretary of.....	.....	9
K.		
Keepers, transmission to inspectors of returns by.....	XI.	13
examining, &c., of returns of	XII.	13
reporting by inspectors and superintendents of neglect of duty by,	.....
XIII, XIV, XXVII.	14, 15	
discharge of drunken.....	XV.	14
inspector teaching duties to.....	XVI.	14
nomination of	XVIII, XIX.	14
selection of only capable persons as.....	XX.	15
qualifications for assistant.....	XXI.	15
obedience to principals of assistant.....	XXI.	15
selecting of assistants by.....	XXII.	15
nominating drunkards or invalids as	XXIII.	15
employing of women or servants as.....	XXIV.	15
duty of superintendents upon death or resignation of.....	XXV.	15
instructing and paying by superintendents of	XXVI.	15
changing distinctions of light-stations by	XLVII.	20
cleaning of premises by, and extra pay and allowance of	LXIII.	23
converting into pilot stations, boarding-houses, &c., of dwellings of,	.....
LXIV.	24	
caring for of lightning conductors by light-vessel.....	LXIX.	24
receiving of and receipting for deliveries from contractors by light-vessel,	.....
LXXVII.	25	
accountability for public property of light-vessel.....	LXXVIII.	26
manning relief-vessels with light-vessel crews and.....	LXXXI.	26
infractions of duty by light-vessel.....	LXXXII.	26
reporting causes for light-vessels abandoning stations by	LXXXIII.	26
allowing by inspectors of furloughs to light-vessel	LXXXVI.	27
abuse of furloughs by light-vessel.....	LXXXVII.	27
keeping log-books by light-vessel	LXXXIII, LXXXIX, XC.	26, 27
allowing strangers, &c., on light-vessels by.....	XCII.	27
furnishing blank books and forms, instructions, &c., to light-vessel.	XCII.	27
use, &c., of light-vessel boats by	XCIV.	28
requisitions for extra supplies by	CLII.	35
accountability of, for safe-keeping and proper use of supplies..	CLVIII.	36
withholding salary of, for excessive expenditure of supplies	CLX.	37
making of inventories at light-stations upon changes of.....	CLXXVII.	39
giving of receipts by retiring, to succeeding.....	CLXXVII.	39
deducting cost of loss of or damage to boats from salary of	CLXXXI.	40
ceasing upon destruction of light-houses or wreck of light-vessels of		
appointments of.....	CCXII.	45
erecting or altering buildings on light-house sites by.....	CCXIV.	45
accommodating at light-stations of inspectors and engineers by.	CCXV.	45
publishing official information by	CCXVII.	46
furnishing copies rules and regulations to.....	CCXXI.	46

L.	Article.	Page.
Laborers, authority for employing, and rates of pay of	XXIX.	16
working times of.....	XXX.	16
paying of day's or month's labor of.....	CCV.	44
Lamps and burners for light-houses	LIX.	22
Lanterns for light-houses	LVII. LVIII.	22
Leaves of absence, light-vessel keepers' and crews'	LXXXVI.	27
abuse of.....	LXXXVII.	27
Lightning conductors for light-houses	LX.	22
for light-vessels.....	LXIX.	24
Lights, order of inspection of	III.	12
reporting all information by superintendents of.....	V.	12
repairing by inspectors of damages to.....	IX.	13
taking special care of important.....	XVII.	14
nomination of keepers for new.....	XIX.	14
employing women or servants to manage.....	XXIV.	15
unauthorized changes in.....	XXXI.	16
transmitting details for notices to mariners of completion, changes, &c., of.....	XLV, XLVI.	19
preserving distinctions of towers, &c., of.....	XLVII.	19
classification of.....	XLVIII.	20
positions, apparatus, &c., of.....	XLIX, L, LI, LII, LIII, LIV.	20
distinctions of.....	LV.	20, 21
Light-house districts, number of		4
description of.....		10, 11
detailing army or navy officers as inspectors of.....		4
Light-house, &c., lists, preparing by Secretaries of		8
Light-house service, traveling by inspectors on	VI.	12
authority for employing persons in.....	XXIX.	16
Light-houses, superintending by engineer officers of the army of the construction of		4
preparing of plans, estimates, &c., for construction, repair, &c., of.....		4
examining memorials for erection of.....		5
surveys preliminary to erection of.....		5
routine of establishing of.....		5
employing of women or servants in.....	XXIV.	15
transmitting of information by inspectors and engineers relative to sites for.....	XXXIII, XXXIV.	16, 17
purchase of land for sites for.....	XXXV.	17
validity of title of sites for.....	XXXVI.	17
surveying of land for.....	XXXVII.	17
conveying by deed of sites for.....	XXXVIII.	17
perfecting of title to sites for.....	XXXVIII.	17
payment for sites for.....	XXXVIII.	18
engineers' reports prior to construction of.....	XXXIX.	18
objects to be observed in making inspections of.....	LVI.	21
order, &c., of lanterns for.....	LVII, LVIII.	22
lamps and burners for.....	LIX.	22
lightning conductors for.....	LX.	22
construction, testing, &c., of oil butts for.....	LXI.	23
character of boats for.....	LXII.	23
light-keepers cleaning, painting, &c.....	LXIII.	23
constructing by contracts, tenders, day's labor, &c., of.....	CXXXIV.	33
inspecting, &c., before receiving of newly constructed	CXXXV.	33

	Article.	Page.
Light-vessels, buoys, &c., charging of Naval Secretary with details relative to ..	9	
construction and classes of	LXV.	24
color, distinctions, painting, &c., of	LXVI.	24
prescribing by Board of character of anchors, chains, &c., of	LXVII.	24
fastening of chains on board of	LXVII.	24
prohibition of cold chisels and punches on board of	LXVII.	24
distinctions of	LXVIII.	24
lightning conductors for	LXIX.	24
transmitting description, notice of placing, &c., of new	LXX.	25
transmitting data for notices to mariners of new	LXXI.	25
stationing, mooring, &c., of new	LXXII., LXXIII.	25
transmitting to Board reports of position, bearings, &c., of newly stationed	LXXIV.	25
number and rates of pay of mates, crews, &c., of newly stationed, LXXV., LXXVI.		25
receiving of and receipting for deliveries of contractors by keepers of	LXXVII.	25
accountability for public property of keepers of	LXXVIII.	26
reporting by inspector of repairs for and deficiencies of anchors, chains, &c., of	LXXIX.	26
testing by inspector of chains, anchors, cables, shackles, &c., of, LXXX.		26
sending relief-vessels to stations abandoned by	LXXXI.	26
returning to abandoned stations of	LXXXI.	26
infractions of duty by keepers, mates, &c., of	LXXXII.	26
reporting causes for abandoning stations by keepers of	LXXXIII.	26
issuing notices to mariners of abandonment and return to station of	LXXXIV.	26
keeping ready by inspectors of relief	LXXXV.	27
allowing furloughs to keepers and crews of	LXXXVI.	27
abuse of furloughs by keepers and crews of	LXXXVII.	27
keeping log-books by keepers of	LXXXVIII., LXXXIX., XC.	27
allowing strangers, &c., on board of	XCI.	27
furnishing blank books and forms, instructions, &c., to keepers of, XCII.		27
objects to be observed in inspections of	XCIII.	28
boats of	XCIV.	28
Log-books, keeping of	LXXXVIII., LXXXIX., XC.	27

M.

Mariners, signing by Chairman of notices to	8	
issuing by inspectors of notices to	X, LXXXIV.	13, 26
issuing by Board of notices to	X.	13
transmitting by engineer of details for notices to	XLV., XLVI.	19
transmitting data of new light-vessels for notices to	LXXI.	25
Materials for construction, repairs, &c., procuring of	4	
charging Naval Secretary with details relative to illuminating	9	
inspection by engineers of	XLI.	18
procuring by contract of	CXXXIV.	33
selling of condemned	CLXXIX., CLXXXI.	40
Meetings of Light-house Board	3, 4	

	Article.	Page.
Meetings of Light-house Board, resolution into executive committee of.....		5
notices of.....		5
Mechanics, employing and rates of payment of.....	XXIX.	16
working hours and days of.....	XXX.	16
paying of day's or month's labor of.....	CCV.	44
Memorials for erection of new light-houses, examining of.....		5
Mental disability, disqualifications of persons as light-keepers for.....	XXIII.	15
Messengers, &c., arranging by Secretaries of duty of.....		9
Moorings, removing lost and reclaiming recovered.....	CCXI.	45

N.

Naval Secretary, duties of.....		9
Navy or army officers, detailing for light-house duty of.....		4, 5
Neglect of duty, reporting by inspectors and superintendents of light-keepers',		
XIII., XIV., XXVII., LXXXII.	14, 15, 26	
Nominations, light-keepers'	XVIII., XIX.	14
Notice, accompanying changes in aids to navigation with public.....	XXXI.	16
Notices to mariners, signing by Chairman of.....		8
issuing by inspectors of.....	X., LXXXIV.	13, 26
issuing by Board of.....	X.	13
transmitting by engineer of details for.....	XLV., XLVI.	19
transmitting data of new light-vessels for.....	LXXI.	25
Notices of meetings of Light-house Board, issuing of		5

O.

Obedience of assistant keepers.....	XXI.	15
Office, conducting by Naval Secretary of business of		9
Officers, &c., of Light-house Establishment forbidden interest in contracts, patents, &c.....	CXLVII.	35
Official information, unauthorized publishing of.....	CCXVII.	46
Official communications, endorsing and addressing of	CCXVIII.	46
acknowledging of.....	CCXIX.	46
Oil, &c., charging Naval Secretary with details relative to.....		9
testing, gauging, delivering, &c., of.....	CXLIII., CLXVII., CLXVIII.	34, 38
casks for.....	CXLIII.	34
preventing purchase of small quantities of.....	CLVII.	36
cellarage, keeping, &c., of.....	CLXIX.	38
stowage, sealing, &c., of casks of.....	CLXX.	38
storing of	CLXXII.	38
stowage, protecting, &c., of casks of, on supply-vessels.....	CLXXIV.	39
gauging, preserving, &c., of, received.....	CLXXIII.	39
Oil butts for light-houses, construction, testing, &c., of	LXI.	23
excluding of air from	CLXXI.	38
Oils for coloring and numbering buoys.....	XCVIII.	29
Operations, annual reports of.....	XXVIII.	16
Organization of Light-house Board.....		3

P.

Paints for coloring buoys.....	XCVIII.	29
Papers, reports, &c., preparing by Secretaries for committee action of		8
&c., of Board, charging Naval Secretary with details relative to records, books.....		9

	Article.	Page.
Pay, light-keepers'	XXVI.	15
mates, crews, &c., of light-vessels.....	LXXV, LXXVI.	25
Pay and allowance, extra.....	LXIII, CCX.	23, 44
Pay-rolls, manner of making out, &c., of.....	CCHI.	43
Payments, withholding of, for defective rations and fuel.....	CXLIV.	34
making of advance.....	CXLVIII.	35
making of, in United States currency.....	CCII.	43
Physical disability, disqualification of persons as light-keepers for.....	XXIII.	15
Plans, estimates, &c., preparing for committee on engineering of.....	4, 9	
Preliminary reports, making by engineers of, prior to construction.....	XXXIX.	18
surveys, making of, by Superintendent of Coast Survey and Colonel Corps Engineers.....	XXXIII.	16
President of Light-house Board.....		3, 5
Primary lights, special care to be taken of.....	XVII.	14
position, apparatus, &c., of.....	XLIX.	20
Publication, furnishing official intelligence for.....	CCXVII.	46
Public notice, accompanying changes in aids to navigation with.....	XXXI.	16
Public property, accountability of light-keepers for.....	LXXVIII.	26
unauthorized use, loan, transfer, sale, &c., of...CLXI, CLXII.	37	
paying for of unaccounted for.....	CLXIII.	37
fraud or embezzlement of.....	CLXIV.	37
paying for lost, damaged, embezzled, &c.....	CLXV.	37
dedication solely to public uses of.....	CLXVI.	38
marking of all articles of.....	CLXXV.	39
selling of refuse.....	CLXXIX.	40
selling of condemned.....	CLXXIX, CLXXXI.	40
Punches and cold chisels, prohibiting of, on light-vessels.....	LXVII.	24
Purchase, establishing validity of title to land before.....	XXXVI.	17
Purchases, making of, at lowest prices.....	XXXIX.	33
from persons in light-house service forbidden.....	CXLVI.	35
of supplies.....	CLIV, CLVI, CXCVIII.	36, 42
paying of bills upon making of.....	CLV.	36

Q.

Quarterly meetings of the Light-house Board	3
returns, transmission by light-keepers of.....	XI.
Quorums of Light-house Board	5

R.

Rations, receiving of and receipting for.....	LXXVII.	25
advertising for bids for, &c.....CXXVII, CXXVIII, CXXIX, CXXX.	32	
conforming of, to terms of contract as to quality, quantity, &c.CXLIV.	34	
Receipts for deliveries by contractors	LXXVII.	25
giving of, by retiring to succeeding keepers.....CLXXVII.	39	
paying creditors upon receiving their.....	CCIV.	43
taking only of properly filled up.....	CCVI.	44
signing by creditors of all	CCVII.	44
Records, &c., of Board, charging Naval Secretary with details relative to.....	9	
Regulations, instructions, &c., signing by Chairman of.....	8	
Relief light-vessels, functions of.....	LXXXI.	26
keeping in readiness for service of	LXXXV.	27
Repairs, &c., duty of inspectors relative to.....	I, IX, LXXIX.	12, 13, 26
responsibility of engineers for.....	XLIV.	19

	Article.	Page.
Reported, drunken light-keepers to be.....	XV.	14
deficiencies in light-vessels' anchors, &c., to be.....	LXXIX.	26
abuse of furloughs to be.....	LXXXVII.	27
incorrectness in keeping light-vessel log-books to be.....	LXXXIX.	27
Reports of committees.....		6
preparing of, by Secretaries for action of committees.....		8
submitting digests of, by Secretaries to Board.....		9
examining, &c., of, by Engineer Secretary.....		10
inspectors'.....	III, IV, V.	12
superintendents'.....	V.	12
engineers'.....	V, XXXIX, XLII.	12, 18
Requisitions, limiting to actual needs of the service of.....	CLXXXVII.	41
Resignation, duty of superintendents upon light-keepers'.....	XXV.	15
Returns, charging Naval Secretary with details relative to inspection.....		9
making by inspectors of annual.....	VIII.	13
transmission by light-keepers of.....	XI.	13
examining by inspectors of light-keepers'.....	XII.	13
Routine of establishing light-houses.....		5
Rules, regulations, and instructions, preparation and distribution of.....		4
preparing by Secretaries of additional.....		8
furnishing to officers of the Light-house service of copies of.....	CCXXI.	46
S.		
Salaries, charging Naval Secretary with details relative to keepers'.....		9
Salvage, paying of.....	CCXI.	44
Secondary lights, taking special care of.....	XVII.	14
position, apparatus, &c.....	L.	20
Secretaries of Light-house Board.....		3
ex-officio members of committees.....		6
action of Board in absence of.....		8, 9
preparing annual light-house and buoy lists by.....		8
preparing of forms for estimates, accounts, &c., by.....		8
preparing of additional rules, &c., by.....		8
Chief Clerk acting in absence of.....		8
duties of.....		8, 9, 10
preparing for action of committees of papers, reports, &c., by.....		8
submitting to Board digests of reports by.....		9
conducting of correspondence by.....		9
examining of estimates and accounts by.....		9
arranging of duties of clerks, &c., by.....		9
Secretary, duties of Engineer.....		4, 9, 10
signing of contracts by.....		8
duties of Naval.....		9
action of Board in absence of.....		9
Servants, managing lights by.....	XXIV.	15
Services, engaging by open contract of.....	CLVI.	36
Sites, transmitting by engineers and inspectors of information relative to light-house.....		
purchase of land for light-house.....	XXXV.	17
validity of title of light-house.....	XXXVI.	17
surveying of light-house.....	XXXVII.	17

	Article.	Page.
Sites, conveying by deed of light-house.....	XXXVII.	17
perfecting of title to light-house.....	XXXVIII.	17
occupying, trespassing on, or building by keepers upon light-house.....	CCXIV.	45
Spindles, construction and distinctions of.....	XCVII.	29
Specifications, &c., preparing for committee on engineering of.....	9	9
Special care to be taken of important lights	XVII.	14
Stakes, construction and distinctions of.....	XCVII.	29
Stationery, &c., of Board, charging Naval Secretary with details relative to.....	9	9
Subordination required of assistant keepers	XXI.	15
Substitutes, employing of light-keepers'.....	XV.	14
Superintendent Coast Survey, preliminary surveys to be made by	XXXII.	16
Superintendents, reporting of all information by.....	V.	12
duty of, toward drunken light-keepers.....	XV.	14
nomination of light-keepers by.....	XVIII, XIX, XXII.	14, 15
selecting of only capable persons as light-keepers by.....	XX.	15
qualifications for assistant keepers to be required by.....	XXI.	15
nominating drunkards or invalids by.....	XXIII.	15
allowing women or servants to manage lights by.....	XXIV.	15
duty of, upon death or resignation of light-keepers.....	XXV.	15
instruction and payment of light-keepers by.....	XXVI.	15
reporting light-keepers' neglect of duty by.....	XXVII.	15
authority for employing persons in light-house service by	XXIX.	16
making changes in aids to navigation by	XXXI.	16
issuing of advertisements for rations and fuel, and for buoy		
service by	CXXVII, CXXVIII, CXXIX, CXXX.	32
withholding of payment for defective rations and fuel by	CXLIV.	34
making purchases, &c., from persons in light-house service by,		
	CXLVI.	35
responsibility for public property of.....	CXLIX.	35
furnishing and taking receipts for extra supplies by.....	CLIX.	37
action of, upon relief from duty.....	CLXXXVIII.	39
entrusting of certain disbursements to.....	CLXXXII.	40
transmitting of quarterly estimates for funds by	CLXXXIII.	40
specifying objects of estimates by.....	CLXXXIV.	40
action of, relative to salvage, recovered moorings, &c....	CCXI.	44
furnishing copies of rules and regulations to.....	CCXI.	46
Supplies, &c., charging of Naval Secretary with details relative to.....	9	9
inspection by engineers of.....	XLI.	18
delivery by supply-vessels of	CLI.	35
requisition of keepers for extra.....	CLII.	36
keeping on hand by inspector of extra.....	CLIII.	36
making open purchases of	CLIV, CLVI.	36
preventing purchases of small quantities of.....	CLVII.	36
accountability of light-keepers for safe-keeping and proper use of	CLVIII.	36
furnishing and taking receipts for extra.....	CLIX.	37
inspector's action in cases of excessive expenditure of	CLX.	37
marking of casks, boxes, packages, &c., of	CLXXV.	39
selling of condemned.....	CLXXIX, CLXXXI.	40
Supply-vessels, number and rates of pay of mates, crews, &c., of	LXXXV, LXXXVI.	25
delivery of supplies by.....	CLI.	35
Surveys preliminary to establishing of aids to navigation.....	XXXII, XXXVII.	5, 16, 17

INDEX.

81

T.

	Article.	Page.
Tenders, number and rates of pay of crews of.....	LXXV, LXXVI.	25
receiving of and receipting for deliveries from contractors by masters of.....	LXXVII.	25
keeping log-books by masters of.....	LXXXVIII, LXXXIX, XC.	27
duty of	CXXV, CXXVI.	32
restriction to light-house service of.....	CXXVI.	32
advertising for rations and fuel for.....	CXXVII, CXXVIII, CXXIX, CXXX.	32
publishing of official information by masters of	CCXVII.	46
Titles, validity of	XXXVI, XXXVII.	17
perfecting of.....	XXXVIII.	17
Traveling on light-house service.....	VI, XLIII.	12, 19
Traveling expenses, allowing of.....	CCXVI.	45
Trespassing, forbidding of	CCXIV.	45

V.

Validity of titles to sites for light-houses, &c.	XXXVI.	17
Verification, &c., of returns	XII.	13
Vessels, action of engineers prior to purchase of	XLII.	18
number and rates of pay of mates, crews, &c., of Light-house Establish- ment.....	LXXV, LXXVI.	25
Vouchers, rendering, &c., of	CXC.	41
making out in triplicate of	CXCVI.	42
showing of appropriation on face of, and time of payment of.....	CXCVII.	42
manner of making out of.....	CC.	43
authority of disbursing officer for payment of	CCI.	43
liability of certifying and disbursing officers relative to.....	CCI.	43
paying creditors upon receiving their	CCIV.	43

W.

Wharves, action of engineers prior to building of	XLII.	18
Winter, taking special care of important lights during.....	XVII.	14
Women, management of lights by.....	XXIV.	15
Working time of mechanics and laborers	XXX.	16
Works of construction, &c., execution of		4
engineers' reports prior to.....	XXIX.	18
superintending by engineers of.....	XL.	18
visiting by engineers of.....	XLIII.	18
responsibility of engineers for.....	XLIV.	19
execution by contract, tenders, day's labor, &c., of		
CXXXIV.	33	
inspecting and approving before receiving of.....	CXXXV.	33
new contracts for required changes in workmanship, materials, &c., during.....	CXXXVI.	33
Works, paying of bills upon receiving of	CLV.	36

3 2044 011 887 890

CONSERVED
June 2004 SAB
HARVARD COLLEGE
LIBRARY



